MOLD INSPECTION TRAINING PROGRAM

PREPARED FOR & PRESENTED TO NEW YORK CITY HOUSING AUTHORITY

STUDENT MANUAL



ENVIRONMENTAL EDUCATION ASSOCIATES

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MOLD INSPECTION TRAINING PROGRAM TABLE OF CONTENTS

Section	Page Number
NYCHA Standard Procedure Manual (SP 040:14:1)	5
Interim Guidance on Wall Breaks	53
Interim Guidance on Pipe Insulation	57
Roof Fan Inspections at NYCHA Residential Buildings (SP 050:21:1)	61
NYCHA Standard Procedure Manual (SP 040:18:2)	89
Mold Resident Documents	133
Caretaker X Memo	141
Mold Work Orders Process	151
Mold Inspection 2.0	225

PREFACE

This training course manual has been created to provide staff of the New York City Housing Authority (NYCHA) with that organization's standard procedures, guidance and a general managers directive (GM) as prepared by NYCHA for NYCHA staff. The procedures and practices detailed in these pages incorporate current procedures at the time of printing. The reader should be advised that as procedures evolve, so do the methods for identifying and remediating mold contamination. Therefore, we emphasize the need for the reader to obtain the most up to date information available.

Standardized procedures, technical expertise and common sense are major components of a successful project. The reader is encouraged to improve further on the techniques provided in this manual as experience is gained through field practice. This will ensure that the mold industry continues to evolve to improve all facets of remediation and worker protection.

ACKNOWLEDGEMENTS & REFERENCES

It would be impossible to acknowledge all of the individuals who have contributed to the development of this course manual in some fashion or manner. Environmental Education Associates, Inc. is extremely grateful to those who have generously shared their knowledge, expertise and experiences throughout the development process. Special thanks to Alisa Raab, Charlotte McLellan and Marvin Jean-Jacques who contributed to the creation of this manual and associated training courses.

DISCLAIMER

This manual was developed using NYCHA documents. This manual has no official weight or legal merit outside NYCHA. Procedures and practices contained in this manual have not been reviewed or approved by regulatory agencies. It is the responsibility of the user to verify compliance with all applicable federal, sate of local regulatory agencies.

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NYCHA STANDARD PROCEDURE MANUAL SP 040:14:1

SP 040:14:1, MOLD/MILDEW CONTROL IN NYCHA RESIDENTIAL BUILDINGS

TABLE OF CONTENTS

I.	PURPOSE	1
II.	POLICY	1
III.	APPLICABILITY	1
IV.	INTRODUCTION TO MOLD AND MOISTURE CONTROL	1
V.	DEFINITIONS	3
VI.	REVIEW CYCLE	
VII.	RESPONSIBILITIES	6
Α.	Office of Mold Assessment & Remediation	6
В.	Property Management	6
C	. Maintenance, Repair & Skilled Trades Department (MRST)	8
D	Lead Hazard Control Department	9
E.	Employees Who Remediate or Correct the Root Causes of Mold	9
F.		9
VIII.	PROCEDURE	
A.	Creating and Scheduling Mold Service Requests	9
В.	Inspecting Mold Conditions in Apartments	.11
C	Remediating Mold and Related Conditions	.19
D		.20
E.	Time Frames to Respond to Mold and Related Issues	.22
F.	Tenant Not Home Policy	. 22
G		
H.		.23
IX.	OUTPUTS, REPORTS, AND RECORDKEEPING	.28
A.	Outputs	.28
В.	Reports	. 28
C	. Recordkeeping	.28
Χ.	TRAINING REQUIREMENTS	
	PERFORMANCE METRICS	
	NON-COMPLIANCE	
	FORMS	
	WORKFLOW	
	REVIEW/REVISION HISTORY PAGE	
	APPENDICES	
	ppendix A – Remediation Methods	
	ppendix B – HA Numbers for Mold Related Tools and Supplies	
A	ppendix C – Instructions for Using the Anemometer	.40

Table of Contents Page i Index No. 040:14:1 Revised 2/26/20

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SUBJECT	PROCEDURE	APPROVED DATE	APPROVED BY /	INDEX NO.
MOLD/MILDEW CONTROL IN NYCHA RESIDENTIAL BUILDINGS	OWNER HEALTHY HOMES	Draft Effective May 21, 2014 Reissued June 3, 2015 Revised December 19, 2018	Rassoul Azarnejad Vice-President of y Homes	040:14:1
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I. PURPOSE

NEW YORK CITY HOUSING AUTHORITY

This Standard Procedure establishes responsive measures to mold and its root causes in New York City Housing Authority (NYCHA) public housing locations and creates protocols to protect the health of residents and staff when remediating mold and identifying and correcting its root causes.

II. POLICY

It is the policy of NYCHA to establish a cooperative partnership between staff and residents to quickly identify mold and its root causes. NYCHA will promptly remove mold from NYCHA locations and correct the root cause of the mold growth (i.e., the moisture source and/or inadequate ventilation).

III. APPLICABILITY

This Standard Procedure applies to staff responsible for the operation and maintenance of NYCHA public housing developments that receive Section 9 subsidies from the U.S. Department of Housing and Urban Development (HUD). This procedure does not apply to Permanent Affordability Commitment Together (PACT) developments.

IV. INTRODUCTION TO MOLD AND MOISTURE CONTROL

Moisture control is the key to mold control. Mold will often grow in moist or wet indoor areas. Common sites for indoor mold growth include bathroom and kitchen walls and ceilings, cabinet bases and walls beneath sinks, interior surfaces of walls, ceilings below leaks from above or directly below roofs, and areas around windows where moisture condenses. Common sources or causes of water or moisture problems include condensation of shower vapors on bathroom walls and ceilings, condensation in wall cavities from inadequately insulated cold water pipes, leaks from plumbing pipes, roof and fac;ade leaks, and drain backups/overflows.

STANDARD BROCEDIDE

The general approach to preventing mold growth in buildings is to keep exterior moisture out of the building, and to control moisture from internal sources. To this end, it is important to establish a cooperative partnership between NYCHA staff and residents so that conditions that require attention are identified and dealt with promptly.

Exposures from residential excessive moisture and mold have been associated with increased risks for respiratory symptoms, asthma, hypersensitivity pneumonitis, rhinosinusitis, bronchitis, and respiratory infections. NYCHA staff must take action to detect and correct leaks, condensation problems, and floods as soon as they are discovered. The potential for building structural damage, mold growth, and increased adverse health effects can and must be reduced by limiting the buildup of indoor moisture.

Top Ten Things NYCHA Staff Should Know About Mold & Moisture

- **1.** Potential health effects and symptoms associated with exposure to mold and excessive moisture include allergic reactions, asthma, and other respiratory complaints.
- 2. Mold can be found almost anywhere; it can grow on virtually any substance if moisture is present. For example, there are molds that can grow on sheetrock, painted plaster and concrete, wood, paper, carpet, foods, and even dusty inorganic building materials.
- **3.** There is no practical way to eliminate all mold and mold spores in the indoor environment; the way to control indoor mold growth is to control moisture.
- **4.** If mold is a problem in an apartment or building, we must clean up the mold and eliminate the sources of moisture.
- **5.** Fix the source of the water problem or leak to prevent mold growth, including repairing leaky roofs and façades and restoring adequate exhaust ventilation in bathrooms and kitchens.
- **6.** Reduce indoor humidity (to 30-60%) to decrease potential for mold growth by: venting bathrooms and kitchens; using air conditioners and de-humidifiers; and increasing ventilation. Staff shall ensure that mechanical ventilation is functioning (clear lateral ductwork and operable roof fans). Further, staff can use a hygrometer to check the relative humidity in a resident's apartment.
- 7. Clean and dry any damp or wet building materials within 24-48 hours to prevent mold growth. Advise residents to clean and dry any damp furnishing and other personal property within 24-48 hours.
- **8.** Clean minor levels of mold off hard surfaces with water and detergent, and dry completely. Absorbent materials, such as sheetrock, that are moldy may need to be replaced.
- **9.** Prevent condensation: reduce the potential for condensation on cold surfaces by assuring that cold water pipes in wall cavities are properly insulated.

Page 2 Index No. 040:14:1 Revised 2/26/20

10. If needed as a result of asthma, individuals with mold and/or excessive moisture in their apartments are entitled to reasonable accommodations from NYCHA.

V. DEFINITIONS

A. Anemometer

An anemometer is an instrument used to measure the air flow or speed of air.

B. Borescope

A borescope is an instrument with a camera used to inspect for leaks or moisture behind a wall through an opening in the wall. It can also be used to observe conditions in other hard to reach places, such as inside an exhaust vent.

C. Complex Repairs

Repairs that need skilled trades or other specialized staff to address and may require multiple visits to the apartment.

D. Craft

The craft is the type of worker (e.g. maintenance worker, painter) assigned to remediate mold and moisture or make other related repairs.

E. Cubic Feet Per Minute (CFM)

CFM is the unit of measure for air flow measurements.

F. HEPA Vacuum

A HEPA vacuum uses a high efficiency particulate air (HEPA) filter that is at least 99.97% efficient in removing microscopic particles, i.e. monodisperse air particles of 0.3 micrometers in diameter.

G. Hygrometer

A hygrometer is an instrument used for measuring the moisture content (i.e. humidity levels) in the air inside an apartment.

H. Independent Data Analyst

An individual or advisory firm who is independently selected and is qualified in forensic data analysis.

Page 3 Index No. 040:14:1 Revised 2/26/20

I. Independent Mold Analyst

An individual or advisory firm who is independently selected, is licensed as a mold assessor by the New York State Department of Labor, and is certified as an industrial hygienist by the American Industrial Hygiene Association.

J. Informer Work Management (iWM) App

Informer Work Management is a work order application available on the handheld device.

K. Inspector

An inspector is a property maintenance supervisor or assistant property maintenance supervisor trained and authorized to perform initial inspections and quality assurance inspections using the iWM app on the handheld device. The property manager is also an authorized inspector.

L. Initial Inspection

The process by which NYCHA diagnoses and documents a mold or excessive moisture condition.

M. Large Remediation Job

A large remediation job is the remediation of one hundred (100) or more square feet of mold in a room. Large remediation jobs are performed by lead abatement workers or a certified contractor.

N. Mold

Mold is a fungus that grows on, and sometimes in, damp surfaces and objects. Live spores act like seeds, forming new mold growth (colonies) when they find the right conditions. Mold is most likely to grow where there is water or excessive moisture such as in bathrooms. Mold at NYCHA is measured by the square footage identified in each room.

The term "mildew" is sometimes used to refer to some kinds of mold.

O. Moisture Meter

A moisture meter is an instrument used to measure the subsurface moisture content of a given structure (e.g. walls, ceilings, floors, and components such as kitchen and bathroom cabinets).

Page 4 Index No. 040:14:1 Revised 2/26/20

P. Mold Resistant Paint

Mold resistant paint contains a chemical fungicide that discourages the growth of mold on surfaces. There must be no mold present when the paint is applied.

Q. Mold Resistant Sheetrock

Mold resistant sheetrock is paperless sheetrock with a fiberglass face that is designed to discourage the growth of mold.

R. Ombudsperson

An independent, Special Master appointed individual, as described in Section VI of the Baez et. Al. v. NYCHA Modified Amended Stipulation and Order of Settlement, who has the authority to investigate mold and excessive moisture complaints and to order appropriate relief.

S. Quality Assurance Inspection

The process by which the inspector confirms that the root cause of mold was effectively addressed, and all child work orders were appropriately completed.

T. Root Cause

The root cause is the fundamental reason for the occurrence of mold, water damage, or moisture. The root cause could be the source of water or excessive moisture (e.g. leaking pipes or fixtures, condensation) or the lack of ventilation (e.g. blocked exhaust ducts, closed windows). Identifying and correcting the root cause in response to a mold complaint is essential to ensuring that the mold or moisture condition related to that root cause does not reoccur.

U. Simple Repairs

Repairs that can be completed by a caretaker or maintenance worker in a single visit to the apartment.

V. Special Master

An individual who was appointed by the U.S. Attorney's Office for the Southern District of New York to investigate NYCHA's failure to comply with the *Baez Consent Decree* and to make recommendations to the Court concerning steps that should be taken to bring NYCHA into compliance.

Page 5 Index No. 040:14:1 Revised 2/26/20

W. Wet Measurement

A structure is considered to be wet when the moisture meter measurement is equal to or greater than 599 (on a scale of 0 to 999).

VI. REVIEW CYCLE

Healthy Homes shall review this Standard Procedure at least once every three (3) years; and advise the Compliance Department via email if no changes are needed or submit its revisions to the procedure by submitting NYCHA Form 022.008, Procedure Development Request.

VII. RESPONSIBILITIES

A. Office of Mold Assessment & Remediation

The Office of Mold Assessment & Remediation shall:

- Monitor key development-level mold-related indicators including, but not limited to, parent and child mold work order completion time frames, and mold reoccurrence and unfounded inspection rates.
- 2. Perform random inspections at developments with high rates of mold reoccurrence or unfounded inspections and report findings to the regional asset manager.
- Monitor the efficiency of mold work order scheduling and provide follow up recommendations to the regional asset manager or skilled trades deputy director, as applicable.

B. Property Management

- 1. The property management department director shall:
 - a. Monitor key development-level mold-related indicators in Maximo including, but not limited to, scheduled appointments, parent and child mold work order completion time frames, and mold reoccurrence and unfounded inspection rates.
 - b. Assign supervisory staff to perform random inspections at developments, as needed.
- 2. The regional asset manager shall:
 - a. Monitor development property management operations and hold property managers and property maintenance supervisors accountable for monitoring all mold-related work orders in Maximo and addressing conditions in compliance with protocols established for remediating mold and identifying and correcting root causes.

Page 6 Index No. 040:14:1 Revised 2/26/20

- b. Investigate and respond to inspection reports prepared by the Office of Mold Assessment & Remediation.
- 3. The Property Management Department skilled trades deputy director shall:
 - a. Monitor skilled trades administrators, borough schedulers, and skilled trades supervisors and hold them accountable for monitoring all mold-related work orders in Maximo and addressing conditions in compliance with protocols established for remediating mold and identifying and correcting root causes.
 - b. Respond to recommendations from the Office of Mold Assessment & Remediation.
- 4. Skilled trades administrators shall schedule skilled trades workers to complete complex repairs within 15 days.
- 5. The borough scheduler shall:
 - a. Review the Maximo scheduled appointments screen daily.
 - b. Monitor Maximo daily for new parent mold and quality assurance inspection work orders.
 - c. Monitor Maximo for the timely completion of parent and child mold work orders and immediately address delays.
 - d. Ensure immediate scheduling of parent and child work orders to prevent delays.
 - (1) Initial inspections must be scheduled for a date no more than 4 calendar days after the date of the parent work order creation.
 - (2) Schedule child work orders for simple repairs to be completed by Property Management within 7 days.
 - (3) Quality assurance inspections must be scheduled and completed between 30-45 days after the last child work order is closed.
 - e. Assign in Maximo the property maintenance supervisor, assistant property maintenance supervisor, or property manager to work orders to conduct initial and quality assurance inspections.
 - f. Identify and schedule all work orders with the status of Waiting To Schedule (WTSCH) and Failed to Schedule (FAILSCH).
 - g. Reschedule appointments for mold related work orders as needed.
 - h. Coordinate the scheduling of skilled trades workers with the Property Management Department Planning Unit skilled trades administrator; the director of the

Page 7 Index No. 040:14:1 Revised 2/26/20

Maintenance, Repair & Skilled Trades Department (MRST); and the Healthy Homes Lead Hazard Control Department Abatement and Clearance Unit.

- 6. The property manager shall:
 - Closely monitor the customer service delivery aspects of this Standard Procedure to ensure NYCHA's commitments to residents are addressed.
 - b. Work closely with the property maintenance supervisor to ensure that property management staff:
 - (1) Visit apartments for all mold work appointments as scheduled.
 - (2) Record resident outreach attempts in the Tenant Data System (TDS)
- 7. The property maintenance supervisor shall:
 - a. Conduct mold initial inspections and quality assurance inspections using mold-related tools and equipment.
 - Work closely with property maintenance staff to ensure that property maintenance staff:
 - (1) Accompany the property maintenance supervisor during initial inspections and quality assurance inspections, as required.
 - (2) Visit apartments for all mold work order appointments as scheduled.
- 8. The assistant property maintenance supervisor shall perform the tasks in Section 7.a-b directly above in addition to the property maintenance supervisor.
- C. Maintenance, Repair & Skilled Trades Department (MRST)
 - 1. The director shall
 - a. Monitor MRST skilled trades administrators and MRST skilled trades supervisors and hold them accountable for monitoring all mold-related work orders in Maximo and addressing conditions in compliance with protocols established for remediating mold and identifying and correcting root causes.
 - b. Respond to recommendations from the Office of Mold Assessment & Remediation.
 - 2. MRST skilled trades administrators shall schedule skilled trades workers to complete complex repairs within 15 days.

Page 8 Index No. 040:14:1 Revised 2/26/20

D. Lead Hazard Control Department

The supervisor of the Abatement and Clearance Unit shall oversee staff for large remediation jobs and coordinate scheduling work with Environmental Field Operations in MRST and the borough scheduler.

NOTE: Once abatement work is complete, Property Management Department staff is responsible for coordinating and scheduling remaining repairs.

E. Employees Who Remediate or Correct the Root Causes of Mold

Employees shall follow the protocols in Section VIII.C and D, as applicable, when remediating mold and related conditions or correcting probable root causes.

F. All NYCHA Employees Performing Work in Apartments

Any employee performing work in a resident apartment who observes a mold condition shall create a parent mold work order either on the handheld device or submit a paper mold work order to the property management office.

VIII. PROCEDURE

- A. Creating and Scheduling Mold Service Requests
 - 1. Creating Parent Mold Work Orders
 - Resident Service Requests to the CCC

When a resident calls the Customer Contact Center (CCC) to make a service request involving mold or mildew, a parent mold work order is created in Maximo. The resident is required to select a scheduled date for the initial inspection within 4 calendar days of the date of the call.

If the resident is unable to schedule a date within 4 calendar days of the date of the call, the resident is advised that NYCHA will visit the apartment the same day in an attempt to conduct the inspection; and that NYCHA will return to the apartment within 48 hours to reattempt to conduct the inspection and may use its Right of Entry to access the apartment for that purpose. See Section VIII.F, Tenant Not Home Policy.

• When residents are advised in the morning of a business day, the same day means that NYCHA will visit the apartment to attempt to conduct the inspection by that afternoon. When residents are advised in the afternoon of a business day or on weekends or holidays, the same day means that NYCHA will visit the apartment to attempt to conduct the inspection by the morning of the next business day.

Page 9 Index No. 040:14:1 Revised 2/26/20

- See Standard Procedure 040:09:6, Customer Contact Center for information on the processing and scheduling of service requests to the CCC
- Resident Service Requests Through the MyNYCHA App

When a resident submits a mold/mildew service request through the MyNYCHA App a parent mold work order is created in Maximo. The resident is required to select a scheduled date for the initial inspection.

If the resident is unable to schedule a date within 4 calendar days of the date of the request, the resident is advised that NYCHA will visit the apartment the same day in an attempt to conduct the inspection; and that NYCHA will return to the apartment within 48 hours to reattempt to conduct the inspection and may use its Right of Entry to access the apartment for that purpose. See Section VIII.F, Tenant Not Home Policy.

- c. Property Management Staff Initiates Work Orders
 - (1) When property management staff or other NYCHA employees view mold conditions in a resident apartment while performing other work or an inspection, they must:
 - (a) Create a parent mold work order in Maximo using the iWM app on the handheld device; or
 - (b) Complete and submit a paper Maximo mold work order to the property management office the same day.
 - (2) The property maintenance supervisor or assistant property maintenance supervisor ensures that property management office staff immediately creates a parent mold work order in Maximo from any submitted paper mold work order.

NOTE: See Standard Procedure 040:09:7, *Managing Maintenance Work Orders* for definitions of Siebel and Maximo; information on planning, completing, and closing out work orders in the Siebel and Maximo applications; and for the definitions of and relationships between parent and child work orders.

2. Supervisory Review of All Mold Work Orders

The borough scheduler must review all mold work orders in Maximo at least daily.

a. If an initial inspection generated through a call to the CCC or via the MyNYCHA App is not scheduled, the borough scheduler must assign an inspector to visit the

Page 10 Index No. 040:14:1 Revised 2/26/20

apartment that same day to conduct the initial inspection, or issue NYCHA Form 042.727, 48 Hour Notice of Health and Safety Repairs to the apartment.

- b. If an initial inspection created by NYCHA staff in Maximo is not scheduled, the borough scheduler must:
 - (1) Contact the resident to schedule the appointment for the initial inspection within 4 calendar days from the parent work order creation date.
 - (2) If the resident is unable to schedule an appointment within 4 calendar days from the parent work order creation date, the borough scheduler must advise the resident that:
 - (a) NYCHA will visit the apartment that same day in an attempt to conduct the inspection; and
 - (b) NYCHA will return to the apartment within 48 hours to reattempt to conduct the inspection and may use its Right of Entry to access the apartment. See Section VIII.F, Tenant Not Home Policy.

NOTE:

- Initial inspections must be scheduled for a date within 4 calendar days of the creation of the parent mold work order.
- All attempts to contact residents must be recorded in the Interview Details (Option 8) in the Tenant Data System (TDS).
- B. Inspecting Mold Conditions in Apartments

On the scheduled date provided on the parent mold work order, the inspector visits the resident's apartment to inspect the mold condition, identify the probable root cause(s), and determine appropriate next steps to remediate the mold, any related conditions, and correct the root cause(s).

NOTE:

Initial inspections are performed using the handheld device. If a handheld device is not operating during the initial inspection, the inspector must record the inspection results on a Maximo paper mold inspection work order and immediately enter the results into Maximo following the initial inspection.

1. Preparing for the Mold Initial Inspection

Prior to visiting the apartment on the day of the initial inspection appointment, the inspector:

a. Reviews the Maximo work order history for the apartment to determine if there is a history of mold or moisture complaints.

Page 11 Index No. 040:14:1 Revised 2/26/20

- b. Checks the mold inspection tool kit to ensure that the following instruments are in working order: anemometer, hygrometer, and moisture meter.
- c. Assigns a maintenance worker to accompany them on the initial inspection, or to be on call, to immediately remediate mold and related conditions or to identify and correct root causes, when possible. The maintenance worker must bring an anemometer, a borescope and tools appropriate for making wall-breaks, and a HEPA vacuum.
- d. Must make a courtesy call to the resident via the handheld device on the way to the initial inspection to remind them of the inspection. If the resident does not answer the call, the inspector must still go to the apartment at the scheduled time.

NOTE:	If the resident or other adult is not home to allow access to the
	apartment for a scheduled mold related appointment, see Section
	VIII.F, Tenant Not Home Policy.

2. Discussing the Mold Condition with the Resident

Upon arriving at the apartment, the inspector:

- a. Makes best efforts to interview an adult listed on the household composition about any history of mold and moisture in the apartment.
- b. Adds the information to the handheld device if there is a history.
- 3. Conducting the Initial Inspection

The inspector conducts the initial inspection using the handheld device.

a. Inspecting for Mold, Water Damage, and Moisture

The inspector:

- (1) Visually inspects the room or area identified in the mold work order for mold growth and records the total estimated square footage of mold on each wall (1-4), floor, ceiling, and any components.
- (2) Visually inspects the room for water damage and records the location of the water damage (e.g. the specific wall(s), floor, ceiling, or component).
- (3) Uses the moisture meter to measure the walls, floor, ceiling, and components in the room for subsurface moisture and records if a measurement is equal to or greater than 599 (i.e. a wet measurement).

Page 12 Index No. 040:14:1 Revised 2/26/20

The inspector must take multiple measurements of each surface or component and record if a measurement is equal to or greater than 599.

b. General Evaluation of Room Conditions

If a mold, water damage, or moisture (i.e., a wet measurement) condition is found, the inspector must conduct a general evaluation of the room and the opposing common walls in adjoining rooms and common areas.

NOTE:

While the inspector is evaluating the opposing side of common walls in adjoining rooms and common areas, if mold conditions are identified in an adjoining room that are not likely from the same root cause, the inspector shall create a parent mold work order on the handheld device.

The inspector should complete this mold work order for the adjoining room at the time of the initial inspection.

- (1) Records the surface structure (e.g. concrete, plaster, sheetrock) and framing structure (e.g. wood, steel) of the room's walls, floor, ceiling, and component(s).
- (2) Uses the hygrometer to take a humidity reading of the room and records the humidity level.
- (3) If the room is a kitchen or bathroom:

Indicates if there is mechanical ventilation.

(a) If there is mechanical ventilation:

The inspector checks the ventilation by using the anemometer to take an air flow measurement in cubic feet per minute (CFM) and records the result in the handheld device.

- i. Maximo automatically generates child work orders:
 - aa. To clean the horizontal vent ductwork.
 - ba. To check the roof fan if the CFM is less than 25.

NOTE:

The user must ensure the anemometer is properly calibrated by:

- Entering the correct size of the exhaust duct (i.e. the height and width in inches); and
- ii. Ensuring that the Free Air Percentage is set to 55%. See Appendix C for instructions on how to use the anemometer. Users must follow the manufacturer's instructions when using inspection tools.

Page 13 Index No. 040:14:1 Revised 2/26/20

- (b) If there is a window:
 - The inspector checks that the window is operating properly and records the result in the handheld device.
 - ii. Maximo automatically generates a child work order to repair the window if it is not operating properly.
- (4) If the room is a bathroom:

Checks if the toilet base and shower enclosure are caulked and records the results in the handheld device

- (a) Maximo automatically generates a child work order to caulk the toilet base and/or shower enclosure if they are not caulked.
- (5) Visually inspects the room for signs of pest infestation and records the results in the handheld device.
 - (a) Maximo automatically generates a child work order for an exterminator when there is evidence of pests.
- c. Identifying the Probable Root Cause(s) and Remediation Methods

The inspector determines the probable root cause(s) for any wall, floor, ceiling, or component identified in Section VIII.B.3.a above as having mold, water damage, or moisture (i.e. a wet measurement).

- (1) The inspector:
 - (a) Selects on the handheld device a probable root cause from the following options:
 - i. Bathtub/shower
 - ii. Caulking
 - iii. Exterior wall (winter)
 - iv. Façade
 - v. Grouting
 - vi. Lack of pipe insulation in wall
 - vii. Leak in apartment above/beside

Page 14 Index No. 040:14:1 Revised 2/26/20

- viii. Plumbing In Unit
- ix. Resident Cause
- x. Roof
- xi. Shower moisture
- xii. Sink
- xiii. Toilet
- xiv. Toilet bowl/tank needs barrier
- xv. Tub surround
- (b) Selects the ceiling, wall(s), floor, or component(s) identified in Section VIII.B.3.a above that have the same probable root cause (e.g., both the mold on the ceiling and water damage on the wall have a probable root cause of Shower Moisture).
- (c) Indicates if a wall break is required to inspect or correct the probable root cause.
 - i. If a wall break is required, the inspector must conduct the wall break with the assistance of a maintenance worker as part of the initial inspection.
 - ii. Maximo will create a work order and alert staff if they are required to follow the Renovation, Repair, and Painting (RRP) rules.

NOTE: Lead-safe work practices and RRP certified workers must be used if (i) Maximo identifies that RRP work is required (the apartment is presumed or known to contain lead-based paint) and (ii) any work would disturb more than 2 square feet of a painted surface per room, or more than 10 percent of the total surface area on an interior or exterior type of component with a small surface area.

- (d) If the probable root cause <u>is not</u> Resident Cause:
 - i. Selects one or more Failure Class/Problem Codes, as applicable, from the limited set of options in the dropdown menu for that probable root cause.
 - ii. Selects the appropriate craft required to make the repair for each Failure Class/Problem Code selected.

Page 15 Index No. 040:14:1 Revised 2/26/20

(e) If the probable root cause is Resident – Cause

Selects on the handheld device the specific instruction provided to the resident in Section VIII.B.5 below for each probable root cause that is Resident – Cause.

- (f) Selects the remediation method and craft from a dropdown menu of limited options for the selected wall(s), floor, ceiling, or component(s).
- (2) Maximo automatically generates child work orders for the Failure Class/Problem Codes (except when the probable root cause is Resident – Cause) and the remediation methods selected.
- (3) If there are any additional probable root causes, the inspector repeats the steps in Section VIII.B.3.c(1) above for each probable root cause.
- (4) If the inspector is unable to determine the probable root cause of a mold, water damage, or moisture (i.e. wet measurement) condition they must immediately contact the Office of Mold Assessment & Remediation by email at:

mold.busters@nycha.nyc.gov

d. Completing the Initial Inspection

To complete the initial inspection:

- (1) The inspector must take multiple photo(s) of the condition(s) identified, including at least one close-up photo of the condition(s) and at least one photo of the larger area, using the handheld device and upload the photo(s) into the parent work order in Maximo.
- (2) If the condition is unfounded (i.e., there was no mold, water damage, or wet measurement condition identified):

The inspector must take and upload photo(s) of the condition reported by the resident as mold and upload the photo(s) into the parent work order in Maximo.

NOTE:	For clarity, the inspector should record key information obtained during
	the inspection in the notes field of the iWM app on an unfounded work
	order.

4. Reviewing the Work Plan

Upon completion of the initial inspection, the inspector:

Page 16 Index No. 040:14:1 Revised 2/26/20

- a. Reviews the child work orders (i.e. the work plan) in the handheld device to confirm the work plan is correct and complete.
- b. Identifies the outcomes of the inspection on NYCHA Form 060.845, Mold Inspection Receipt.
- 5. Reviewing the Initial Inspection Results with the Resident
 - a. When Mold, Water Damage, or a Moisture Condition is Identified

The inspector:

- (1) Gives NYCHA Form 060.303, Controlling Mold in Your Apartment to the resident and reviews with the resident the general recommendations on the form for preventing and cleaning mold and the importance of identifying and correcting the root cause(s) of mold to avoid reoccurrence.
- (2) Gives NYCHA Form 060.845, Mold Inspection Receipt to the resident and reviews the following with the resident:
 - (a) The initial inspection outcome (founded or unfounded).
 - (b) The requirement that NYCHA conduct a quality assurance inspection between 30-45 days after all work is completed.
 - (c) The required timeframe for the completion of all work.
 - (d) The name and contact information of the ombudsperson.
- (3) Indicates in the handheld device that both NYCHA Form 060.303, Controlling Mold in Your Apartment and NYCHA Form 060.845, Mold Inspection Receipt were provided to and discussed with the resident.
- (4) Advises the resident that the property management office will contact them to schedule any additional appointments needed.
- (5) Advises the resident that NYCHA will mail them NYCHA Form 060.846, Mold Inspection Review which details the following information:
 - (a) The initial inspection and probable root cause findings.
 - (b) The next step(s) to remediate the mold, excessive moisture, or related condition and correct the root cause.
 - (c) The specific instruction(s) on how to correct the probable root cause if the probable root cause is Resident Cause.

Page 17 Index No. 040:14:1 Revised 2/26/20

NOTE:	See Management Manual, Chapter II, Rent and Rent Collection,
	Section XV.A and Appendix 8 for details on when and how to
	make a social service referral to the Family Partnerships
	Department if there are housekeeping or safety hazards in an
	apartment.

- (d) The requirement that NYCHA conduct a quality assurance inspection between 30-45 days after all work is completed.
- (e) The required timeframe for the completion of all work.
- (f) The name and contact information of the ombudsperson.
- b. When the Mold Condition is Unfounded

The inspector:

- (1) Discusses the initial inspection findings with the resident.
- (2) Gives NYCHA Form 060.303, Controlling Mold in Your Apartment to the resident and reviews with the resident the general recommendations on the form for preventing and cleaning mold and the importance of identifying and correcting the root cause(s) of mold to avoid reoccurrence.
- (3) Requests that the resident sign the unfounded work order on the handheld device.
- (4) Indicates in the handheld device if the resident refused to sign or if the resident disagrees that the mold condition is unfounded.
- (5) Provides the resident with NYCHA Form 060.845, Mold Inspection Receipt including the name and contact information of the ombudsperson.
- (6) Closes the mold work order as Unfounded.
- (7) Provides the name and contact information of the ombudsperson.

NOTE:	If when following the Tenant Not Home Policy in Section VIII.F, NYCHA
	conducts an initial inspection when a tenant is not home, the inspector must
	leave the following in the apartment: NYCHA Form 060.303, Controlling
	Mold in Your Apartment, NYCHA Form 060.845, Mold Inspection Receipt,
	and a hard copy of the work order.

Page 18 Index No. 040:14:1 Revised 2/26/20

C. Remediating Mold and Related Conditions

NOTE:	See Appendix B for a list of HA numbers for ordering specialized tools and
	supplies.

- 1. All remediation work must conform to the protocols in the following documents:
 - a. Standard Procedure 050:20:1, Lead Safe Housing Procedure
 - b. Appendix A, Remediation Methods
 - c. Interim Guidance on Wall Breaks
 - d. Interim Guidance on Pipe Insulation

NOTE:	If cracked or crumbling 9 by 9 vinyl floor tile is present, staff must:		
	Cover the exposed area of floor with plastic		
	Tape all edges securely with duct tape		
	Instruct the resident not to disturb the covered area		
	Contact the Technical Services Department's Asbestos Unit for		
	further instructions.		

2. All work must be documented with photographs, including at least one close-up photo of the condition(s) and at least one photo of the larger area.

Employees must take and upload photos of the work into Maximo using the handheld device. Required photos include:

- a. The condition before work is performed.
- b. The condition after work is completed.
- c. Other photos as needed to demonstrate that work behind a surface was completed to standard, e.g. photos of insulated pipes, mold free areas.

NOTE:	Lead-safe work practices and RRP certified workers must be used if
	(i) Maximo identifies that RRP work is required (the apartment is
	presumed or known to contain lead-based paint) and (ii) any work
	would disturb more than 2 square feet of a painted surface per
	room, or more than 10 percent of the total surface area on an
	interior or exterior type of component with a small surface area.

Employees must document the materials used in the Materials section of the moldrelated child work order including, as applicable, the specific paint (mold resistant or standard) and sheetrock (mold resistant or standard).

> Page 19 Index No. 040:14:1 Revised 2/26/20

- 4. Personal Protective Equipment (PPE)
 - a. Mold Remediation of Less than 100 Square Feet

Employees are recommended to use the following:

- An N95 disposable respirator (i.e., a dust mask) or more protective respirator (such as an N100 disposable respirator) in accordance with the OSHA respiratory protection standard (29 CFR 1910.134)
- (2) Disposable protective clothing covering both head and shoes
- (3) Gloves
- (4) Eye protection
- Mold Remediation of 100 Square Feet or More (Large Remediation Jobs) Performed by Lead Abatement Workers or Certified Contractors

Employees must use the following:

- (1) A minimum of a half-face elastomeric respirator with a P-100 filter used in accordance with OSHA respiratory protection standard (29 CFR 1910.134)
- (2) Disposable protective clothing covering both head and shoes
- (3) Gloves
- (4) Eye protection

NOTE: Employees using respirators must follow the requirements in *SP 001:17:2, Respiratory Protection Safety Program.*

- D. Correcting Root Causes
 - 1. Employees must ensure that all repairs to correct root causes:
 - a. Are completed to industry standards.
 - b. Conform to the protocols in the following documents:
 - (1) Standard Procedure 050:20:1, Lead Safe Housing Procedure
 - (2) Interim Guidance on Wall Breaks
 - (3) Interim Guidance on Pipe Insulation

Page 20 Index No. 040:14:1 Revised 2/26/20

- (4) Interim Guidance on Roof Fan Inspections
- c. Are documented with photographs per the guidelines in Section VIII.C.2. above.
- 2. Instructions for Specific Tasks
 - a. Additional Pipe Insulation Instruction
 - (1) When performing any wall break including instances where the probable root cause is the lack of pipe insulation in the wall, employees must install or replace pipe insulation in any area inside the wall cavity where the employee determines that the insulation is missing or defective. The employee creating the wall break shall create an opening of sufficient size to allow visibility of all pipes within the wall cavity with assistance of the borescope.
 - (2) Lead-safe work practices and RRP certified workers must be used if (i) Maximo identifies that RRP work is required (the apartment is presumed or known to contain lead-based paint) and (ii) any work would disturb more than 2 square feet of a painted surface per room, or more than 10 percent of the total surface area on an interior or exterior type of component with a small surface area.
 - (3) If the current insulation in the wall cavity is a suspected asbestos-containing material, then no further work must be conducted, the hole must be sealed with either Masonite or 6 mm poly sheeting and duct tape, and a work order must be created for testing/abatement by the Technical Services Department's Asbestos Unit.
 - Instructions for Cleaning Horizontal Vent Ductwork

When cleaning horizontal vent ductwork from inside the apartment, employees:

- (1) Remove the face of the grill to the vertical shaft and HEPA-vacuum the grill and the interior and exterior of the horizontal vent ductwork.
- (2) Must use caution when cleaning the fire damper inside the ductwork.
- 3. Personal Protective Equipment (PPE)

Employees must use the PPE required to perform their specific task. An employee should refer any questions about the required PPE to their supervisor or contact the Office of Safety and Security at 212-306-8800.

Please refer to the *Personal Protective Equipment (PPE) and Other Safety Equipment Catalogue* for HA numbers and item descriptions. The catalogue is located on the SafeNYCHA webpage on NYCHA Connect/Departments.

Page 21 Index No. 040:14:1 Revised 2/26/20

E. Time Frames to Respond to Mold and Related Issues

1. Service Level Goals

a. Flooding conditions must be abated within 24 hours provided that NYCHA has access to the impacted areas. All standing water relating to the flood must be removed, and water-soaked areas, with the exception of residents' personal property, must be dried within 48 hours. Residents must be advised to clean and dry any damp furnishing and other personal property within 24-48 hours.

b. Initial Inspection and Child Work Orders

All simple repairs must be completed within 7 calendar days from the date the parent mold work order was created. Complex repairs must be completed within 15 calendar days from the date the parent mold work order was created.

Given this timeframe the initial inspection must be completed within 4 calendar days from the date the parent mold work order was created.

These standards may be reviewed and updated based on performance.

c. Quality Assurance Inspections

The quality assurance inspection must be completed between 30-45 calendar days after the last child work order has been closed.

F. Tenant Not Home Policy

If the resident or another adult eighteen years of age or older is not home to provide access for a scheduled appointment for a mold inspection or related child work order, or a quality assurance inspection, NYCHA employees must follow the steps in Standard Procedure 040:17:3, Accessing Public Housing Apartments When Tenant Not Home to Address Deficiencies Related to Leaks, Mold, and Lead-Based Paint.

G. Reasonable Accommodations

- 1. If needed as a result of a medical disability or a breathing or respiratory disorder including asthma, residents in apartments with mold and/or excessive and/or uncontrolled moisture conditions are entitled to reasonable accommodations from NYCHA. Such accommodations may include, but are not limited to, the following:
 - The right to install and operate an additional air conditioning unit in their apartment if the electrical system permits an additional unit;
 - b. Temporary relocation during mold and moisture remediation;

Page 22 Index No. 040:14:1 Revised 2/26/20

- c. Permanent relocation to other NYCHA housing if the apartment is uninhabitable and another apartment is available; and/or
- d. The use of enhanced dust suppression methods during mold remediation.
- 2. Property management staff or CCC customer information representatives must check the "reasonable accommodation" flag on the Maximo mold work order or Siebel service request if a resident asks for a reasonable accommodation.
- 3. See Standard Procedure 040:12:1, Reasonable Accommodations in Housing for Applicants, Public Housing Residents, and Section 8 Voucher Holders, to learn more about the responsibilities of NYCHA staff to review reasonable accommodation requests, and the applicable terms, forms, and policies for reasonable accommodations.

H. Quality Assurance

- 1. Quality Assurance Inspections
 - a. Maximo automatically generates a quality assurance inspection work order twenty-five (25) calendar days after the last child work order is closed for all apartments where a mold, water damage, or moisture (i.e. a wet measurement) condition was identified during the inspection. The target start date is automatically populated as 30 calendar days after the last child work order is closed and the target end date is populated as 45 calendar days after the last child work order is closed.
 - b. Once the quality assurance inspection work order is generated, the borough scheduler:
 - (1) Assigns the property maintenance supervisor, assistant property maintenance supervisor, or property manager to conduct the quality assurance inspection; and
 - (2) Ensures that property management staff contacts the resident and schedules the quality assurance inspection to take place between 30-45 calendar days after the last child work order is closed.

NOTE:

- For quality assurance purposes, whenever possible the inspector conducting the quality assurance inspection should be different than the inspector who performed the initial inspection.
- Quality assurance inspections are performed using the handheld device.
 If a handheld device is not operating during the quality assurance
 inspection, the inspector must record the results on a paper quality
 assurance inspection work order and enter the results into Maximo
 immediately following the quality assurance inspection.

Page 23 Index No. 040:14:1 Revised 2/26/20

c. Preparing for the Quality Assurance Inspection

Prior to visiting the apartment on the day of the quality assurance inspection appointment, the inspector:

- (1) Checks the mold inspection tool kit, to ensure that the following instruments are in working order: anemometer, hygrometer, and moisture meter. Brings all the tools on the quality assurance inspection in case a full new initial inspection is needed.
- (2) Assigns a maintenance worker to accompany them on the quality assurance inspection or be on call in case there is follow up work or a full new initial inspection is required. The maintenance worker must bring a borescope and tools appropriate for making wall-breaks.
- (3) Must make a courtesy call to the resident via the handheld device on the way to the quality assurance inspection to remind them of the appointment. If the resident does not answer the call, the inspector must still go to the apartment at the scheduled time.
- d. Conducting the Quality Assurance Inspection
 - (1) Inspecting for Mold, Water Damage, and Moisture
 - (a) The inspector:
 - i. Visually inspects for mold any wall, floor, ceiling, or component identified in the initial inspection as having mold and records the results in the handheld device.
 - ii. Visually inspects for water damage any wall, floor, ceiling, or component identified in the initial inspection as having water damage and records the results in the handheld device.
 - iii. Uses the moisture meter to measure for subsurface moisture any, wall, floor, ceiling, or component that measured wet during the initial inspection and records the results in the handheld device.
 - (b) If mold, water damage, or moisture (i.e. a wet measurement) is found during the quality assurance inspection:
 - i. The inspector immediately stops the quality assurance inspection and completes and closes the quality assurance inspection work order.
 - ii. Maximo automatically generates a new parent mold work order.

Page 24 Index No. 040:14:1 Revised 2/26/20

- iii. The inspector immediately conducts a full inspection following the steps in Section VIII.B.3-5.
- (c) If no mold, water damage, or moisture (i.e. a wet measurement) is found, the inspector continues with the quality assurance inspection.
- (2) If an air flow measurement was taken during the initial inspection:

The inspector uses an anemometer to take an air flow measurement in cubic feet per minute (CFM) of the kitchen or bathroom exhaust vent.

NOTE:

The user must ensure the anemometer is properly calibrated by:

- i. Entering the correct size of the exhaust duct (i.e. the height and width in inches); and
- ii. Ensuring that the Free Air Percentage is set to 55%. See Appendix C for instructions on how to use the anemometer. Users must follow the manufacturer's instructions when using inspection tools.
- (3) Confirms that all work (i.e. child work orders) to remediate mold and correct root causes and related conditions was satisfactorily completed.
 - (a) The inspector:
 - Reviews the work actuals of the child work orders using the handheld device.
 - Visually inspects all completed work in the apartment related to the child work orders.
 - (b) If all work was satisfactorily completed:

The inspector completes the quality assurance inspection by taking photo(s) of the inspection area free of mold, water damage, and/or moisture and uploading the photo(s) into Maximo.

(c) If any work was not satisfactorily completed:

The inspector:

- Immediately creates a child work order in Maximo.
- ii. Takes and uploads a photograph of the unsatisfactory work into Maximo if the work is visible in the apartment.
- iii. Closes the existing quality assurance inspection work order.

Page 25 Index No. 040:14:1 Revised 2/26/20

iv. Follows up with supervisor of the staff person(s) who performed the work to report the unsatisfactory work and ensure the work is completed.

NOTE: See Section XII, Non-Compliance, for steps to address work that is not performed to standard.

- e. Reviewing the Quality Assurance Inspection with the Resident
 - (1) Quality Assurance Inspection Complete All Work Satisfactorily Completed The inspector:
 - (a) Reviews the quality assurance inspection findings with the resident.
 - (b) Requests that the resident sign the quality assurance inspection work order on the handheld device confirming that mold and any related conditions are not present and that all work was completed satisfactorily.
 - (c) Indicates on the handheld device if the resident refuses to sign or is dissatisfied with the work.
 - (d) Closes the quality assurance inspection work order.
 - (2) Additional Work Needed

If additional work is needed, the inspector advises the resident of:

- (a) The next steps to complete the work and the required timeframe for completion of all work.
- (b) The requirement for a new quality assurance inspection once the work is completed.
- 2. Performance Reporting

The Office of Mold Assessment and Remediation assigns:

- a. Staff to review reports to identify developments with:
 - (1) High parent mold work order completion time frames.
 - (2) High rates of unfounded mold work orders.
 - (3) High reoccurrence rates for mold work orders.

Page 26 Index No. 040:14:1 Revised 2/26/20

- b. Supervisory staff trained in mold inspections to:
 - (1) Visit developments and inspect randomly selected apartments with high rates of unfounded or reoccurring (as applicable) mold work orders.
 - (2) Report findings on the underlying issue, i.e. a building system and/or mold inspection and remediation process issue.
 - (3) Provide follow up recommendations to the regional asset manager.
 - (a) For building system issues, the supervisory staff may, for example, recommend additional repairs.
 - (b) For process issues, the regional asset manager follows up with the property manager and property maintenance supervisor to address the process issue which could include providing additional training, reviewing key accountabilities, or providing progressive discipline.
- c. Staff trained in scheduling mold work orders to:
 - (1) Provide follow up recommendations to the Property Management Department skilled trades deputy director or regional asset manager; or the director of MRST.
 - (a) For building system issues, the Office of Mold Assessment & Remediation staff may, for example, recommend additional repairs.
 - (b) For process issues, recommendations could include providing additional training, reviewing key accountabilities, and/or providing progressive discipline.
 - The Property Management Department skilled trades deputy director addresses issues with the borough scheduler, skilled trades administrators, and skilled trades supervisors.
 - ii. The director of MRST addresses issues with MRST skilled trades administrators and MRST skilled trades supervisors.
 - iii. The regional asset manager addresses issues with the property manager and property maintenance supervisor.

Page 27 Index No. 040:14:1 Revised 2/26/20

IX. OUTPUTS, REPORTS, AND RECORDKEEPING

A. Outputs

- 1. Mold in NYCHA apartments is remediated and the root causes are identified and corrected within the allowable timeframes.
- 2. Mold recurrence (same apartment/same room) is reduced.

B. Reports

Operations reports to be developed with the independent data analyst.

C. Recordkeeping

The IT Business Solutions Technology Department's Maximo Team retains electronically created and stored completed work orders for at least seven (7) years.

X. TRAINING REQUIREMENTS

The Human Resources Department's Learning and Development section in conjunction with Operations shall provide or contract to provide the following training, as applicable. The training shall be provided initially and once every two years thereafter.

A. Inspections

Training on inspection tools and methods as well as conducting and documenting inspections.

B. Building Sciences

Training on identifying the root causes of mold and on the methods to correct the root causes to prevent the reoccurrence of mold.

C. Remediation Methods

Training on how to safely and effectively remediate mold and its root causes.

XI. PERFORMANCE METRICS

- A. Average number of days to complete repairs and close mold work orders.
- B. Average number of days to complete initial inspections.
- C. Percent of mold work orders for reoccurring mold.

Page 28 Index No. 040:14:1 Revised 2/26/20

XII. NON-COMPLIANCE

- A. If unsatisfactory work is identified during a quality assurance inspection described in Section VIII.H, or at any other time, supervisory staff must take one or more of the following actions:
 - 1. Identify areas for follow up training for the employee and ensure training is scheduled and provided.
 - 2. Reinforce with the employee(s) the job expectations, accountabilities, and the progressive discipline process.
- B. Failure to comply with the requirements of this Standard Procedure may result in disciplinary actions.

XIII. FORMS

- A. NYCHA Form 042.727, 48 Hour Notice for Health & Safety Repairs
- B. NYCHA Form 060.303, Controlling Mold in Your Apartment
- C. NYCHA Form 060.845, Mold Inspection Receipt
- D. NYCHA Form 060.846, Mold Inspection Review

Page 29 Index No. 040:14:1 Revised 2/26/20

XIV. WORKFLOW

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Page 30 Index No. 040:14:1 Revised 2/26/20

XV. REVIEW/REVISION HISTORY PAGE

MOLD/MILDEW CONTROL IN NYCHA RESIDENTIAL BUILDINGS

SP 040:14:1

Review/ Revision	Review/ Revision	Sections Amended
	Date	
1.	Not	The Standard Procedure was posted as a draft on the Forms &
	applicable	Reference Library on May 19, 2014. NYCHA staff used the
	new	posted draft as agency policy beginning on the effective date of
	Standard	May 21, 2014.
_	Procedure	
2.	6/3/2015	Banner
3.	6/3/2015	VI, Assessment of Mold/Mildew: The First Staff Visit
4.	12/19/18	Procedure updated and organized into current Standard
		Procedure format.
5.	12/19/18	Section I, Purpose
6.	12/19/18	Section II, Policy
7.	12/19/18	Section III, Applicability
8.	12/19/18	Added Section IV, Introduction to Mold and Moisture Control
9.	12/19/18	Added Section V, Definitions
10.	12/19/18	Section VI, Review Cycle
11.	12/19/18	Added Section VII, Responsibilities
12.	12/19/18	Added Section VIII, Procedure
13.	12/19/18	Added Section IX, Outputs, Reports, and Recordkeeping
14.	12/19/18	Added Section X, Training Requirements
15.	12/19/18	Added Section XI, Performance Metrics
16.	12/19/18	Added Section XII, Non-Compliance
17.	12/19/18	Section XIII, Forms
18.	12/19/18	Added Section XIV, Workflow
19.	12/19/18	Added Section XV, Review/Revision History Page
20.	12/19/18	Added Section XVI, Appendices
21.	12/19/18	Removed previous appendices A-G
22.	12/19/18	Added Appendix A, Remediation Methods
23.	12/19/18	Added Appendix B, HA Numbers for Mold Related Tools and
		Supplies
24.	12/19/18	Added Appendix C, Instructions for Using the Anemometer
25.	1/3/19	Section VIII.C, Remediating Mold and Related Conditions
26.	1/3/19	Section VIII.D, Correcting Root Causes
27.	10/17/19	Section VIII.G, Procedure
28.	2/26/20	Banner

Page 31 Index No. 040:14:1 Revised 2/26/20

29.	2/26/20	Section II, Policy
30.	2/26/20	Section III, Applicability
31.	2/26/20	Section IV, Introduction to Mold and Moisture Control
32.	2/26/20	Section V, Definitions
33.	2/26/20	Section VI, Review Cycle
34.	2/26/20	Section VII, Responsibilities
35.	2/26/20	Section VIII, Procedure, Subsections A-H
36.	2/26/20	Section IX, Outputs, Reports, and Recordkeeping
37.	2/26/20	Section X, Training Requirements
38.	2/26/20	Section XII, Non-Compliance
39.	2/26/20	Appendix A, Remediation Methods
40.	2/26/20	Appendix B, HA Numbers for Mold Related Tools and Supplies
41.	2/26/20	Appendix C, Instructions for Using the Anemometer
42.		
43.		
44.		
45.		
46.		
47.		

XVI. APPENDICES

Appendix A – Remediation Methods

1. Ceiling: Painted Concrete (Leak or Condensation; All Rooms)

- a. HEPA-vacuum and clean with a detergent solution surfaces displaying water damage, mold growth, and/or that measure wet.
- b. Wet-scrape or wire-brush any loose paint.
- c. Repaint with mold standard paint. In bathrooms and kitchens repaint with mold resistant paint.

2. Ceiling: Sheetrock with Steel Framing (Leak; All Rooms)

- a. Remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. Continue removal to a point of at least 6 inches beyond any visible water damage or mold growth on the front or back sides of the sheetrock and/or areas that measure wet or to the next available framing member. If mold growth is observed on the exposed adjacent wall, remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. In areas where significant water damage, mold growth, or moisture is present on sheetrock, use a HEPA-vacuum at the point of dust generation during the sheetrock removal work.
- b. Replace sheetrock. In bathrooms and kitchens replace with mold resistant sheetrock.
- c. Repaint with standard paint. In bathrooms and kitchens repaint with mold resistant paint.

3. Ceiling: Sheetrock with Wood Framing (Leak; All Rooms)

- a. Remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. Continue removal to a point of at least 6 inches beyond any visible water damage or mold growth on the front or back sides of the sheetrock and/or areas that measure wet or to the next available framing member. If mold growth is observed on the exposed adjacent wall, remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. In areas where significant water damage, mold growth, or moisture is present on sheetrock, use a HEPA-vacuum at the point of dust generation during the sheetrock removal work.
- b. HEPA-vacuum and clean with a soap or detergent solution any wood framing components displaying water damage and/or minor levels of mold growth.
- c. Paint any wood framing components displaying water damage and/or minor levels of mold growth conditions with mold resistant paint.
- d. Remove and replace wood framing displaying significant mold growth.
- e. Replace sheetrock. In bathrooms and kitchens replace with mold resistant sheetrock.
- f. Repaint with standard paint. In bathrooms and kitchens repaint with mold resistant paint.

Page 33 Index No. 040:14:1 Revised 2/26/20

4. Ceiling Sheetrock with Steel Framing (Condensation; Bathroom or Kitchen)

- a. Remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. Continue removal to a point of at least 6 inches beyond any visible water damage or mold growth on the front or back sides of the sheetrock and/or areas that measure wet or to the next available framing member. If mold growth is observed on the exposed adjacent wall, remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. In areas where significant water damage, mold growth, or moisture is present on sheetrock, use a HEPA-vacuum at the point of dust generation during the sheetrock removal work.
- b. Replace with mold resistant sheetrock.
- c. Repaint with mold resistant paint.

5. Ceiling: Sheetrock with Steel Framing (Condensation; Other Rooms)

- a. Remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. Continue removal to a point of at least 6 inches beyond any visible water damage or mold growth on the front or back sides of the sheetrock and/or areas that measure wet or to the next available framing member. If mold growth is observed on the exposed adjacent wall, remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. In areas where significant water damage, mold growth, or moisture is present on sheetrock, use a HEPA-vacuum at the point of dust generation during the sheetrock removal work.
- b. Replace sheetrock.
- c. Repaint with standard paint.

6. Ceiling: Sheetrock with Wood Framing (Condensation; Bathroom or Kitchen)

- a. Remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. Continue removal to a point of at least 6 inches beyond any visible water damage or mold growth on the front or back sides of the sheetrock and/or areas that measure wet or to the next available framing member. If mold growth is observed on the exposed adjacent wall, remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. In areas where significant water damage, mold growth, or moisture is present on sheetrock, use a HEPA-vacuum at the point of dust generation during the sheetrock removal work.
- b. HEPA-vacuum and clean with a soap or detergent solution any wood framing components displaying water damage and/or minor levels of mold growth.
- c. Paint any wood framing components displaying water damage and/or minor levels of mold growth conditions with mold resistant paint.
- d. Remove and replace wood framing displaying significant mold growth.
- e. Replace with mold resistant sheetrock.
- f. Repaint with mold resistant paint.

Page 34 Index No. 040:14:1 Revised 2/26/20

7. Walls: Painted Plaster (Leak or Condensation; All Rooms)

- a. HEPA-vacuum and clean with a detergent solution surfaces displaying water damage, mold growth, and/or that measure wet.
- b. Wet-scrape to remove the affected paint and top-coated plaster or skim-coating to which the paint is adhered. Continue wet-scraping to a point of at least 12 inches beyond any visible water damage, mold growth, and/or areas that measure wet.
- c. Repaint with mold resistant paint.

8. Walls: Sheetrock with Steel Framing (Leak or Condensation; All Rooms)

- a. Remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. Continue removal to a point of at least 6 inches beyond any visible water damage or mold growth on the front or back sides of the sheetrock and/or areas that measure wet or to the next available framing member. If mold growth is observed on the exposed adjacent wall, remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet.
- b. Replace sheetrock. In bathrooms and kitchens replace with mold resistant sheetrock.
- c. Repaint with standard paint. In bathrooms and kitchens repaint with mold resistant paint.

9. Walls: Sheetrock with Wood Framing (Leak or Condensation; All Rooms)

- a. Remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. Continue removal to a point of at least 6 inches beyond any visible water damage or mold growth on the front or back sides of the sheetrock and/or areas that measure wet or to the next available framing member. If mold growth is observed on the exposed adjacent wall, remove and dispose of sheetrock displaying visible water damage, mold growth, and/or that measure wet. In areas where significant water damage, mold growth, or moisture is present on sheetrock, use a HEPA-vacuum at the point of dust generation during the sheetrock removal work.
- b. HEPA-vacuum and clean with a soap or detergent solution any wood framing components displaying water damage and/or minor levels of mold growth.
- c. Paint any wood framing components displaying water damage and/or minor levels of mold growth conditions with mold resistant paint.
- d. Remove and replace wood framing displaying significant mold growth.
- e. Replace sheetrock. In bathrooms and kitchens replace with mold resistant sheetrock.
- f. Repaint with standard paint. In bathrooms and kitchens repaint with mold resistant paint.

10. Floors: Finished Wood Floors (Leak or Condensation; All Rooms)

a. Remove and dispose of finished wood floorboards displaying significant water damage (buckling) and/or that measure wet. Continue removal to a point of at least 12 inches

Page 35 Index No. 040:14:1 Revised 2/26/20

- beyond any visible mold growth on the top and/or bottom sides of finished wood floorboards, plywood sub-flooring, and/or sleepers or to the perimeter of the room.
- b. If wet, water-damage, and/or mold growth conditions reach the perimeter of a room, evaluate flooring in the adjacent room to determine if additional removal work is necessary.
- c. Replace flooring.

11. Floors: Ceramic Floors (Leak or Condensation; All Rooms)

a. Clean surfaces thoroughly using a low-toxicity household cleaner with slightly abrasive properties.

12. Floors: Vinyl Floor Tiles (Leak or Condensation; All Rooms)

- a. Remove and dispose of water-damaged vinyl floor tiles or tiles measuring wet.
- b. HEPA-vacuum underlying concrete slab and clean using a detergent solution.
- c. Replace floor tiles.

13. Kitchen Cabinetry and Bathroom Vanities (Significant Mold)

- a. Remove and dispose of cabinetry.
- b. Replace cabinetry.

14. Bathtub and Shower Grout or Caulking

 a. Where grout or caulking displays heavy and widespread levels of mold growth, dig out existing grout or caulking and replace with an approved mold resistant product.

15. Minor Mold Growth (On Painted Surfaces, Shower Grout, Cabinets, etc.)

a. Clean surfaces thoroughly using a low-toxicity household cleaner with slightly abrasive properties.

Appendix B – HA Numbers for Mold Related Tools and Supplies

1. Supplies

HA #	Material Item	Material Item Specification	Application
1404922227	Foster 40-50 Paint	5 Gallon Container	Used as per remediation method
1214922226	Plas-tec	4 X 8 Sheet	Provide waterproof barrier behind toilet
1219924836	Heavy Duty Adhesive,	Multipurpose Type for Various Construction Projects, Liquid Nails # LN603	Adhesive for plastic panel
1220991245	White Tub & Tile Sealant Caulking Silicone	10.1 oz Cartridge Packed 24/box G.E. SCS1702	Sealing base of toilets and shower walls
0304920052	Micro Filter	Micro Filter, 10 Quantity Replacement Filters	Used with backpack vacuum
0806938344	Microbiowash		Detergent
080657583	ShockWave		Detergent

2. Tools

HA #	Material Item	Material Item Specification	Application
2016125015	Putty Knife	1-1/4" Stiff Blade	Spread adhesive for plastic panel
2016125020	Putty Knife	1-1/2", Flex Professional Type, Stanley #28241	Spread adhesive for plastic panel
2022922432	V-Notched Trowel	Flat Top for Flooring, 9" X 1/8" X 1/16"	Spread adhesive for plastic panel
2022922431	Roller	3" J-Type, Use for Plastic Laminate	Press plastic panel into adhesive and ensure good bond

Page 37 Index No. 040:14:1 Revised 2/26/20

HA #	Material Item	Material Item Specification	Application	
2022922433	Drywall Type T Square	48" X 2", Aluminum, Anodized Finish, 5-Rivet Construction, 1 mm Graduations Assist in cutting panel		
2022991858	Plexiglass Cutter	Heavy Duty, Fletcher #05-120	Assist in cutting plastic panel	
2006924266	Spiral Saw	6 Amp, 120 Volt, Complete Kit with Zip Mate, Circle Cutter Guide & Dust Vault, Rotozip # SS560VSC-31	Assist in cutting plastic panel	
0304920051	HEPA Vacuum Cleaner	1 1/2" Static-Dissipating Vacuum Hose, 50' Extension Cord, Two Intercept Micro Filters, 17" Crevice Tool, 3" Dust Brush w/ Reduce, 5" Upholstery Tool, Xover Floor Tool, 42 to 59" Aluminum Telescoping Wand	Assist in controlling airborne particles	
1701920185	Moisture Meter	Rugged construction, large backlit display, pin moisture measurement, non-invasive measurement up to 3/4" - 20mm below the surface	Assist in detecting excessive moisture	
1701921776	VAC Smart and Wireless Probe Kit	Thermal Anemometer, Vane Anemometer, Thermo-Hygrometers, and Infrared Thermometer	Assist in measuring air velocity, temperature, relative humidity, wet bulb/dew point, and volume flow	
1701920186	Vane Anemometer Wireless Smart Probe	Bluetooth Vane Anemometer, 3 AAA Batteries, Certificate of Calibration	Assist in volume-flow measurements and balancing multi-outlet ventilation systems using several instruments	
1701920187	Hygrometer Smart and Wireless Probe	Bluetooth Hygrometer, 3 AAA Batteries, Certificate of Calibration	Assist in measuring humidity and temperature	
1701920188	Infrared Thermometer	Bluetooth Infrared Thermometer, 3 AAA Batteries, Certificate of Calibration	Assist in non-contact temperature readings from a distance	

Page 38 Index No. 040:14:1 Revised 2/26/20

HA#	Material Item	Material Item Specification	Application
2003928503	Seesnake Micro Inspection Camera	Model CA-300 with 3 ft. cable, complete with accessories, Rigid #37888	Record and save still images and videos of problems in hard-to-reach areas

Appendix C – Instructions for Using the Anemometer

A. Switching On and Off

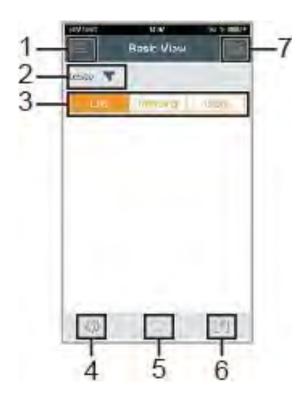
- Open the Testo App on your NYCHA issued handheld device. Once the Testo App is open, turn on your Anemometer using the instructions below:
 - i. Press the large button shown as number 1 in the image below.
 - ii. The LED light should start blinking yellow.



2. The Testo device should automatically pair with your NYCHA issued handheld device. You will know the Anemometer has successfully paired when the LED light turns green. (Note: For best results, do not operate more than one Testo device at a time.)

Page 40 Index No. 040:14:1 Revised 2/26/20

B. Overview of the Operating Controls



- 1. Choice of applications
- 2. Display of connected Smart Probes
- 3. 3-panel switch between the 3 informational views (list, graphic diagram, table)
- 4. Measurement settings. (The menu changes depending on which Smart Probe is connected and which particular device is selected)
- 5. Restarts the measuring value recordings in graph and table format. Allows you to freeze and unfreeze the reading
- 6. Export the reading
- 7. Options menu

Page 41 Index No. 040:14:1 Revised 2/26/20

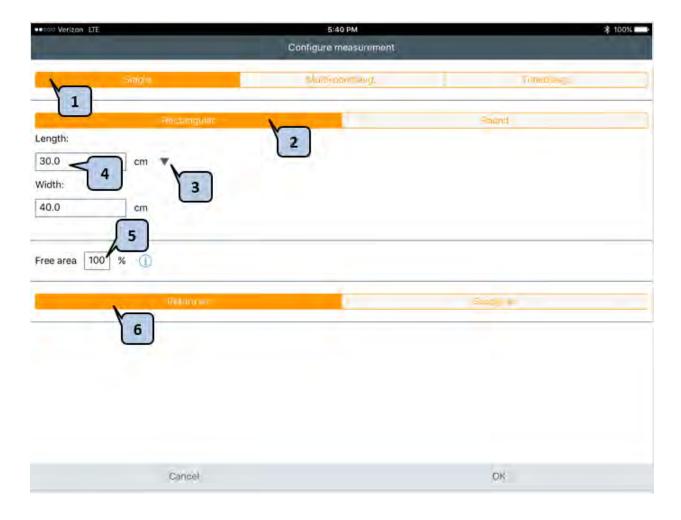
C. Configuring the Testo App to Take an Airflow Reading

- 1. From the Start up Screen, select Measurement Settings
- 2. On the next selection screen, select Volume Flow (Outlet)
 - Select settings. This selection screen will let you choose your configuration for measurement

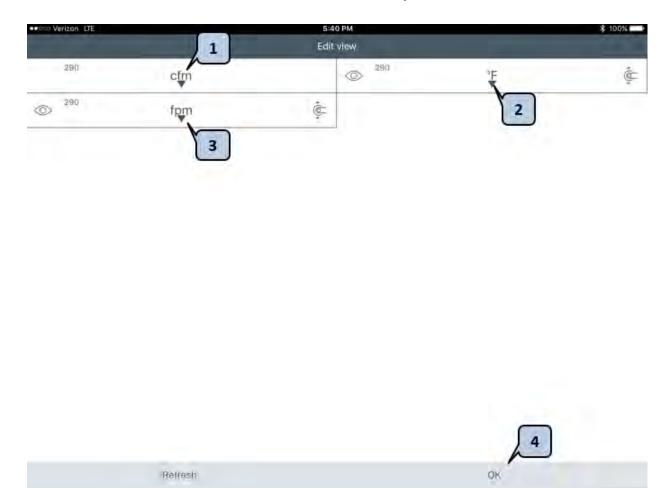


Configuring the Testo App to Take an Airflow Reading (Continued)

- 1. On the Configure Measurement screen (Pictured Below), choose **Single** measurement
- 2. Below that setting, there is a setting for either a rectangular or round air duct measurement
 - a. Choose the Rectangular measurement
- 3. Ensure that the length and width in your App is set to inches
 - a. If the unit of measure is not in inches, use the drop-down triangle symbol to change your unit of measure to inches.
- 4. Input the length and width of the air duct you are measuring
- 5. Change Free Area to 55%
- 6. Ensure the setting for return air is selected
- 7. Hit **OK** to save your settings.



- **D.** In the following screen adjust your units to the following:
 - 1. Change unit of measure to Cubic Feet per minute (CFM)
 - 2. Change temperature units to Fahrenheit (°F)
 - 3. Change unit of measure to Feet Per Minute (FPM)
 - 4. Select **OK** at the bottom of the screen to save your unit selections



E. Taking a Flow Measurement

To take a measurement, place the anemometer so it is flush with the face of the air duct grill.

- 1. Your results will be displayed on the Volume Flow (outlet) screen (Pictured Below)
- 2. To freeze a flow measurement, hit the Start and Stop button at the bottom of your screen

Hitting the Start and Stop button multiple times will allow you to save multiple readings.



F. Output Results

To view a table of results:

- 1. Return to the Main Menu screen
- 2. Select the Volume Flow (outlet)



Below is the Volume Flow (outlet) screen:





INTERIM GUIDANCE ON WALL BREAKS

NEW YORK CITY HOUSING AUTHORITY MANAGEMENT SERVICES DEPARTMENT

Interim Guidance on Wall Breaks Updated: December 16, 2016

When opening a wall to perform or prepare for repairs, staff must take the necessary precautions to protect residents and staff from mold, asbestos, and lead. This guidance (which supplements the wall break procedures detailed in GM3666) details the steps staff must take before, during, and after the wall break. Instructions on temporary wall closures are also included in this guidance; temporary wall closures are an important customer service practice that must be implemented until permanent repairs can be completed.

Maintenance workers, bricklayers, carpenters, plumbers, plasterers and roofers are responsible for performing repairs that require wall breaks, and are responsible for following the below guidance.

Work area preparation

After determining that a wall break must be performed, staff must immediately obtain the necessary supplies before proceeding with repairs. Supplies include, but are not limited to, 6 mil polyethylene sheets, duct tape, a spray bottle, and a sheet of pre-cut Masonite. Lay polyethylene sheets on all horizontal surfaces in the immediate vicinity of the wall opening and secure them with duct tape. **Just prior** to starting work, mist with water the surface area to be opened to reduce the amount of dust produced from the wall break.

If you are working in a development with known lead-based paint or lead components (listed in Appendix A and B of GM3666), polyethylene sheets should cover all horizontal surfaces in the room where the repairs occur. The entrance door should also be covered and weighted at the base to prevent dust from entering other rooms. In these developments, you should make every effort to keep the wall opening under two (2) square feet to limit the amount of dust produced. If the wall break must be greater than two (2) square feet, you must follow the Level 4 dust control instructions detailed in Appendix C of GM3666.

Precautions while performing repairs; temporary wall closure

Where possible, score painted walls with a utility knife or use a pry bar or chisel to open a glazed wall. Sawing and drilling should be avoided, if possible, as they produce significantly more dust and make containment and clean up more difficult.

The wall opening should measure 1' by 1' when done for exploratory purposes (e.g., locating a leak), 2' by 2' for smaller repairs, and 4' by 4' for larger repairs. By opening the wall according to these standard sizes, staff can quickly and easily create a temporary closure using pre-cut Masonite. Developments should maintain a stock of Masonite cut in these sizes to fit the standard wall opening.

Staff **must** make a temporary closure over the opening so that residents are not left with an open wall until final repairs can be completed. Staff should place a pre-cut Masonite sheet over the opening and screw in to secure it. The edges should be covered with duct tape to seal it.

When the wall opening is performed on a tub wall, staff must waterproof the temporary Masonite closure. Use a new piece of polyethylene sheeting to cover the affected wall from the side and top edges to the tub ledge and extend 12 inches past the corner onto the adjacent wall, securing all edges with duct tape. Carefully cut an opening for the tub spout and shower controls, and tape down edges as thoroughly as possible.

Please note: Staff are required to detail that a wall opening has been performed on a tub wall in the notes section of the work order. The subsequent permanent repairs must be expedited in order to prevent potential damage to apartments below. To do so, staff must also notify the development supervisor(s), who will inform the Planning Unit that the follow-up work order must be prioritized.

Clean up

Once the temporary wall closure is complete, use a HEPA-filter vacuum to remove dust, then wet wipe the work area using a clean rag or moistened towel to remove any remaining dust. If you suspect lead is present, use a clean rag or moistened towel with lead-specific detergent to wipe down the work area.

INTERIM GUIDANCE ON PIPE INSULATION

NEW YORK CITY HOUSING AUTHORITY MANAGEMENT SERVICES DEPARTMENT

Interim Guidance on Pipe Insulation Updated: December 16, 2016

Background

When performing repairs that require a wall break and/or repairs to water/ fire system piping or heat supply lines, NYCHA has the opportunity to quickly and efficiently retrofit piping with insulation in accordance with New York City code. This Interim Guidance provides information on how to inspect and install insulation when a wall break has been performed in the course of completing a repair.

Maintenance workers, bricklayers, carpenters, plumbers, plasterers and roofers are responsible for conducting repairs that require wall breaks and/or repairs to water piping. Thus, maintenance workers and the aforementioned trades will be responsible for following the below guidance.

Process Details

For repairs requiring a wall containing pipes to be opened, maintenance and applicable skilled trades staff are instructed to inspect pipes, valves and fittings exposed for the presence of insulation. For apartment repairs, staff must inspect all domestic water pipes for insulation. In public space, staff must inspect water/ fire system piping or heat supply lines affected by the repair. All new piping (other than waste, vent piping and heat return lines) must be insulated and any repairs that require removal of insulation must include replacing the removed insulation.

If there is no insulation present, staff must install insulation on all pipes, valves and fittings exposed and accessible as a result of the wall break. Where possible, one-inch thick insulation should be installed. If pipe spacing prevents one-inch insulation to be installed, half-inch thick insulation should be installed. Owens Corning ASJ Max insulation of both sizes and related materials (or other manufactured insulation approved by Supply Chain Operations) will be available in the development storeroom for maintenance and skilled trades staff to install on water pipes of various sizes. The full list of insulation and related materials is included in Appendix A. Should they not be available in the development storeroom at the time of the appointment, staff should make a temporary closure to the wall opening using Masonite until the material is obtained at which point work may resume. (Please follow Interim Guidance for Wall Breaks)

Maintenance workers and applicable skilled trades staff are responsible for fully inspecting the pipes exposed and accessible after the wall is opened. Should they find these pipes lack insulation, they must install the insulation during the course of the repair. Staff should consult the manufacturer's installation instructions for additional information. Staff issued with a handheld device must take a photo of the installed insulation once they have completed the installation, select the appropriate insulation remedy codes and attach the photo to the work order in Maximo.

If staff finds that insulation is ripped, damaged or unsecured, staff should remove what remains of the old insulation, and then install insulation around all pipes, valves and fittings that are exposed and accessible as a result of the repair. In the event staff suspects existing insulation may contain asbestos, they are to report it to

¹ 2014 NYC Local Law No. 12, NYC Administrative Code §28-316.1

the development and follow the existing process for testing and abatement. Once insulation has been tested and/or abated, staff should resume installation as outlined above.

Superintendents, assistant superintendents, and skilled trades supervisors are responsible for ensuring that maintenance and skilled trades staff have properly inspected pipes and installed insulation and adhered to policy and procedure outlined in this interim guidance. Superintendents and supervisors should review the work orders where insulation has been installed and view the attached photos to evaluate the installation.

Additionally, superintendents and development staff are responsible for ensuring that an adequate supply of insulation is in stock, monitoring the supply, and ordering additional insulation, when necessary.

Appendix A: Insulation Materials and Supplies			
HA Number	Description		
	INSULATION		
1207923960*	INSULATION, FIBERGLASS, FOR 1/2" PIPE SIZE, 1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722579 OR GRAINGER # 45FM38		
1207923801*	FOR 1/2" PIPE SIZE, 1" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722470 OR GRAINGER #4LFC9		
1207923802	INSULATION, FIBERGLASS, FOR 1/2" PIPE SIZE, 1-1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722571 OR GRAINGER #4LFE2		
1207923803	INSULATION, FIBERGLASS, FOR 1/2" PIPE SIZE, 2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #200257 OR GRAINGER #4LFF4		
1207923961*	INSULATION, FIBERGLASS, FOR 3/4" PIPE SIZE, 1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722597 OR GRAINGER # 40PP22		
1207923804*	FOR 3/4" PIPE SIZE, 1" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722471 OR GRAINGER #4LFD1		
1207923805	FOR 3/4" PIPE SIZE, 1-1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722575 OR GRAINGER #4LFE3		
1207923806	FOR 3/4" PIPE SIZE, 2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722619 OR GRAINGER #4LFF5		
1207923962*	INSULATION, FIBERGLASS, FOR 1" PIPE SIZE, 1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722609 OR GRAINGER # 40PP32		
1207923807*	FOR 1" PIPE SIZE, 1" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722564 OR GRAINGER #4LFD2		
1207923808	FOR 1" PIPE SIZE, 1-1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722580 OR GRAINGER #4LFE4		
1207923809	FOR 1" PIPE SIZE, 2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722612 OR GRAINGER #4LFF6		
1207923963*	INSULATION, FIBERGLASS, FOR 1-1/2" PIPE SIZE, 1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722602 OR GRAINGER # 40PP18		
1207923810*	FOR 1-1/2" PIPE SIZE, 1" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722596 OR GRAINGER #4LFD4		
1207923811	FOR 1-1/2" PIPE SIZE, 1-1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722594 OR GRAINGER #4LFE6		
1207923812	FOR 1-1/2" PIPE SIZE, 2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722606 OR GRAINGER #4LFF8		
1207923964**	INSULATION, FIBERGLASS, FOR 2" PIPE SIZE, 1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH		
1207923813**	FOR 2" PIPE SIZE, 1" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722586 OR GRAINGER #4LFD5		

1207923814	FOR 2" PIPE SIZE, 1-1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #200267 OR GRAINGER #4LFE7
1207923815	FOR 2" PIPE SIZE, 2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722587 OR GRAINGER #4LFF9
1207923816**	FOR 2-1/2" PIPE SIZE, 1" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722599 OR GRAINGER #4LFD6
1207923817	FOR 2-1/2" PIPE SIZE, 1-1/2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722583 OR GRAINGER #4LFE8
1207923818	FOR 2-1/2" PIPE SIZE, 2" WALL THICKNESS, HINGED WITH SELF SEALING LAP, 3 FT LENGTH, OWENS CORNING #722589 OR GRAINGER #4LFG1
	TAPE
1207923819	FOR FIBERGLASS PIPE INSULATION, 3" WIDE X 150 FT, PRESSURE SENSITIVE ADHESIVE, RATED 0 TO 150 DEG F., OWENS CORNING #531700 OR GRAINGER #4LFJ3
1207923820	FOR PIPE INSULATION, 1" X 108 FT, PRESSURE SENSTITIVE ADHESIVE, RATED 0 TO 150 DEG F., VINYL, OWENS CORNING #PVC201 OR GRAINGER #6WXE4

^{*} For insulation marked with a single asterisk (*), developments must maintain a stock of 40 units. For insulation marked with a double asterisk (**), 20 units must be maintained in stock. Developments must also maintain a stock of 10 rolls of both styles of tape.

ROOF FAN INSPECTIONS AT NYCHA RESIDENTIAL BUILDINGS (SP 050:21:1)

SP 050:21:1, ROOF FAN INSPECTIONS AT NYCHA RESIDENTIAL BUILDINGS

TABLE OF CONTENTS

I. PURPOSE	
II. POLICY	
III. APPLICABILITY	1
IV. DEFINITIONS	2
V. REVIEW CYCLE	3
VI. RESPONSIBILITIES	
A. Operations Departments	3
B. Healthy Homes Department	4
C. Office of Quality Assurance	4
VII. PROCEDURE	
A. Monthly Roof Fan Inspections	
B. Child Work Orders	
C. Oversight	
VIII. OUTPUTS, REPORTS, AND RECORDKEEPING	
A. Outputs	
B. Reports	
C. Recordkeeping	
IX. TRAINING REQUIREMENTS	
X. PERFORMANCE METRICS	
XI. NON-COMPLIANCE	
XII. FORMS	
XIII. WORKFLOW	
XIV.REVIEW/REVISION HISTORY PAGE	
XV. APPENDICES	
Appendix A – Position Duty Statements	
Appendix B – Override/Bypass Switch Supplemental Information	
Appendix C – Standard Bypass Sign	
Appendix D – Greenheck Roof Fans Information	22

Table of Contents Page i Index No. 050:21:1 Issued 7/30/2021

NEW YORK CITY HOUSING	IDARD PROCEDURE			
SUBJECT	PROCEDURE	APPROVED DATE	APPROVED BY	INDEX NO.
	OWNER		A A Tail	
ROOF FAN INSPECTIONS AT	HEALTHY HOMES		Rassoul Azarnejad	050:21:1
NYCHA RESIDENTIAL BUILDINGS	PUBLIC HOUSING		Vice-President of Healthy	030.21.1
DOILDINGS	OPERATIONS		Homes	
			VIII MIN	
		7/30/2021	Vito Mustaciuolo	
		Date:	Chief Operating Officer	

I. PURPOSE

The purpose of this Standard Procedure is to provide instructions to NYCHA employees to perform inspections, maintenance, and repairs of roof fans.

II. POLICY

It is the policy of NYCHA to:

- A. Ensure roof fans are operating continuously, 24 hours per day, where possible;
- B. Inspect roof fans monthly to ensure roof fans are operating properly;
- C. Conduct detailed quality assurance inspections of roof fans;
- D. Perform preventative maintenance on roof fans;
- E. Return all inoperative or malfunctioning fans to service within 21 calendar days from the date of inspection; and
- F. Follow the requirements of the *Baez et. al. v. NYCHA Modified Amended Stipulation and Order of Settlement* (United States District Court, Southern District of New York).
- G. The inspection instructions in Section VII.A. of this Standard Procedure also are followed if an individual roof fan inspection work order is generated from a mold inspection, leak, or excessive moisture

III. APPLICABILITY

This Standard Procedure applies to all NYCHA employees who perform roof fan inspections in NYCHA public housing developments, and the employees who monitor the inspections. This procedure does not apply to Permanent Affordability Commitment Together (PACT) developments.

Page 1 Index No. 050:21:1

IV. DEFINITIONS

A. Belt Driven Roof Fan

A type of fan where the fan wheel is affixed to a pulley that is driven by a motor and associated belt.

B. Craft

The type of worker assigned to a work order. For each failure class or problem code, Maximo lists a default craft and other possible crafts that can be assigned. Titles that can be assigned such work orders include roofers, machinists, and electricians.

C. Direct Drive Roof Fan

A type of fan where the fan wheel is directly affixed to the motor.

D. Fan Timer

A device that limits the operating hours of fans; it is NYCHA's policy that all fan timers must be overridden or disconnected to ensure continuous fan operation.

E. High Efficiency Particulate Air (HEPA) Vacuum

A vacuum that uses a HEPA filter and is at least 99.97% efficient in removing microscopic particles (i.e., monodisperse air particles of 0.3 micrometers in diameter).

F. Informer Work Management App (iWM App)

A computer software work order application used by NYCHA to support maintenance and repairs, accessed by employees on handheld devices.

G. Maximo

A computer software application used by NYCHA to support inspections, maintenance, and repairs.

H. Malfunctioning Roof Fan

A roof fan identified during a monthly roof fan inspection as needing repair or replacement. A roof fan is considered to be malfunctioning if it meets one or more of the following conditions: is not operable, no air exhausts from the fan, the fan exhibits excessive noise or vibration, or the belt is not in satisfactory condition.

Page 2 Index No. 050:21:1 Issued 7/30/2021

I. Rubber Isolator (Double Studded)

A specialized rubber washer installed on screws used to affix the fan housing to the riser that reduces vibration and noise.

J. Vendor

A third party under contract with NYCHA.

K. Ventilation Riser

A vertical shaft (commonly constructed of galvanized steel) that connects bathroom, kitchen, and common space horizontal vents to roof fans.

V. REVIEW CYCLE

The Healthy Homes Department's Office of Mold Assessment and Remediation and Department of Public Housing Operations shall review this Standard Procedure at least once every three years; and advise the Compliance Department's Procedures Unit via email if no changes are needed or submit its revisions to the procedure by submitting NYCHA Form 022.008, Procedure Development Request.

VI. RESPONSIBILITIES

The following departments and titles have responsibilities in this Standard Procedure. See Appendix A - Position Duty Statements, for the summary of duties by title or department.

- A. Operations Departments
 - 1. Borough vice-presidents
 - 2. Neighborhood administrators
 - 3. Property managers
 - 4. Property maintenance supervisors
 - 5. Assistant property maintenance supervisors
 - 6. Skilled Trades deputy directors
 - 7. Skilled Trades employees (Property Management)
 - 8. Skilled Trades employees (Technical Services Department)

Page 3 Index No. 050:21:1 Issued 7/30/2021

- 9. Borough Planning supervisors
- 10. Maintenance workers
- B. Healthy Homes Department
 - 1. Office of Mold Assessment and Remediation senior manager
 - Employees in the Office of Mold Assessment and Remediation Analytics and Process Change Unit
- C. Office of Quality Assurance
 - 1. Director
 - 2. Inspectors
- Quality assurance officer

VII. PROCEDURE

- A. Monthly Roof Fan Inspections
 - 1. Maximo automatically generates a monthly roof fan inspection work order (IN) for each building that contains roof fans.
 - a. The work orders are viewable on the iWM App on the handheld devices provided to employees who perform inspections for ease of use and data collection purposes.

NOTE: If an employee performing roof work observes problems or potential problems with a roof fan, they must create a roof fan inspection work order.

- 2. The development property maintenance supervisor or assistant property maintenance supervisor monitors Maximo for monthly roof fan inspections.
- 3. The development property maintenance supervisor, assistant property maintenance supervisor, or maintenance worker (inspector) performs monthly roof fan inspections.
- Defective roof fans are required to be returned to service within 21 calendar days of a monthly inspection.
 - a. If an individual roof fan inspection work order is generated as a result of a mold inspection, leak, or excessive moisture, these inspection work orders and related work must be addressed within 21 calendar days.

Page 4 Index No. 050:21:1 Issued 7/30/2021

b. Work orders resulting as a response to a resident complaint regarding apartment ventilation are remediated based on the 21-day period provisions.

NOTE: If the timeframes related to this Standard Procedure cannot be met because of weather conditions, the inspector adds that information into the notes section of the work order.

- 5. Fan repairs may be performed by either in-house staff or a vendor.
 - a. If a development has less than 15 roof fans, repairs usually are made by NYCHA employees. If a development has 15 or more roof fans, a vendor performs the repairs.
 - b. If a vendor is required to make roof fan repairs, the inspector contacts the Property Management Borough Office. The Borough Office identifies the vendor and coordinates the repairs.
- 6. Fan repairs must be made in accordance with the manufacturer's specifications.
- 7. If a fan motor needs to be replaced and the fan model number cannot be identified because the manufacturer's name plate is illegible or missing, the inspector reviews Development Blueprints or the Document Management and Archival System (DMAS) for Heating and Ventilation plans. To access DMAS, go to nycha.zlinkfm.com. Users must have an account to get access.

NOTE: To request access to DMAS, go to the Service Desk on the NYCHA Connect home page and select the option for DMAS.

- 8. Replacement fans must be sized to meet the horsepower, RPM, and other characteristics as per original specifications, with the following exceptions:
 - a. All roof fans are to be replaced with direct drive fans.
 - b. Replacement fans must be specified to operate 24 hours per day, seven days per week.
- 9. To prepare for the monthly roof fan inspection, the inspector brings the following equipment to the location:
 - a. Equipment to open roof fans (including but not limited to screw drivers).
 - b. Spare fan belts (if belt driven fans are present on the roof).
 - c. Spare bolts, nails, and rubber isolators to make limited repairs described below in section VII.A.10.c.

Page 5 Index No. 050:21:1 Issued 7/30/2021

d. Equipment to access all roof fans on a roof, if required, based on the needs of each development.

NOTE: Some fans are located on the roof above the elevator machine room or other areas that are elevated above the main roof or on a sub-roof. These areas typically require ladders to access. Detailed roof drawings can be obtained from DMAS. To access DMAS, go to nycha.zlinkfm.com. Users must have an account to get access. See Section VII.A.7, above for instructions on how to request

get access. See Section VII.A.7. above for instructions on how to request access to DMAS.

- 10. On the Inspection Tab in Maximo, there are tasks listed with questions for inspectors to answer related to the following items. The inspection questions are available on the handheld device. The answer choices are pre-loaded from Maximo and must be selected by the inspector.
 - a. Verifying fan timer overrides.

NOTE: It is NYCHA's policy that roof fans must be operable for 24 hours per day, seven days per week.

- (1) On the inspection work order, Fan Timer Task, Question 1, asks whether the fan timers have been overridden to allow fans to operate continuously.
- (2) If the fan timers have not been overridden, the inspector:
 - (a) Locates and bypasses the existing roof fan timer(s) by removing the Off Pin and then tripping the Override or Bypass Switch (see Appendix B Override/Bypass Switch Supplemental Information). Fan timers can be in a basement or a roof top distribution room.
 - (b) After the timers are bypassed, secures the timer cover.
 - (c) Attaches a sign to indicate that the timer was bypassed. Use Appendix C Standard Bypass Sign.

- b. Physically inspecting each roof fan.
 - (1) During this phase of the inspection, the inspector determines if the roof fan is in proper working condition by answering the following questions with a 'Yes' or 'No.'
 - (a) Is the roof fan operable?
 - (b) Is the air exhausting from the fan?
 - (c) Is the roof fan exhibiting excessive noise or vibration?
 - (2) The inspector then is asked to select the fan's motor drive which can be either:
 - (a) Belt-driven (typical on older model fans); or
 - (b) Direct-driven (typical on newer model fans).
 - (3) If 'belt-driven' is selected, the inspector opens the roof fan housing to observe the belt-driven motor.
 - (a) To observe the condition of the belt, the inspector opens the hood and immediately shuts down the motor using the switch located within the housing. This is required to avoid serious injury or death.
 - (b) The inspector answers 'Is the belt in satisfactory condition?' in one of three ways:
 - i. Yes (satisfactory- belt is not broken, no signs of cracking or cuts)
 - ii. CAT (corrective action taken)

The inspector chooses this if they note a deficiency and correct it successfully. With this selection, Maximo automatically creates a closed work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'BELTS DML.'

iii. No (unsatisfactory- belt is broken or shows **any** signs of visible wear, including cracking or cuts)

The inspector chooses this if they note a deficiency and the deficiency is not corrected. With this selection, Maximo automatically creates a work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'BELTS DML.'

Page 7 Index No. 050:21:1 Issued 7/30/2021

- (4) If 'direct-driven' is selected, the inspector does not answer any more questions regarding the proper working condition of any belt items and proceeds directly below to Section VII.A.10.b.(5).
- (5) The inspection is complete, and no further questions are asked if the inspector answers:
 - (a) 'Yes' to 'Is the roof fan operable,' and
 - **(b)** 'Yes' to 'Is the air exhausting from the fan,' **and**
 - (c) 'No' to 'Is the roof fan exhibiting excessive noise or vibration,' and
 - (d) 'Yes' to 'Is the belt in satisfactory condition' (for belt-driven roof fans).
- (6) The inspection continues with the items in sections VII.A.10.c. and VII.A.10.d. (directly below) if the inspector answers:
 - (a) 'No' to 'Is the roof fan operable,' and/or
 - **(b)** 'No' to 'Is the air exhausting from the fan,' **and/or**
 - (c) 'Yes' to 'Is the roof fan exhibiting excessive noise or vibration,' and/or
 - (d) 'No' to 'Is the belt in satisfactory condition' (for belt-driven roof fans).
- c. For the inspection question determining if the roof fan is exhibiting excessive noise or vibration:
 - (1) If the fan is not exhibiting excessive noise or vibration, the inspector responds 'No.'
 - (2) If the fan is exhibiting excessive noise or vibration, the inspector responds 'Yes,' and:
 - (a) Evaluates whether corrective action can be taken during the inspection by performing one or more of the following tasks:
 - Tightening, replacing, or installing of appropriate bolts connecting the fan housing to the base plate.
 - ii. Installing new or replacing worn out rubber isolators (double studded) associated with the fan housing bolts.
 - iii. Removing foreign objects located within the fan housing.

Page 8 Index No. 050:21:1 Issued 7/30/2021

- (3) If the actions taken during the inspection as outlined directly above in section c.(2)(a) eliminates the excessive noise or vibration, the inspector responds 'CAT' (corrective action taken).
 - (a) If corrective action was taken because of the fan wheel, the inspector selects the response 'CAT-FANWHEEL.' Maximo automatically creates a closed work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'FANHOUSINGDL.'
 - (b) If corrective action was taken because of a loose pulley, the inspector selects the response 'CAT-PULLEY LOOSE.' Maximo automatically creates a closed work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'PULLEYDAMAGED.'
- (4) If any actions were taken during the inspection, as outlined directly above in section c.(2)(a), but the excessive noise or vibration continues, the inspector chooses one of the following responses:
 - (a) If the issue is related to the fan wheel, the inspector selects the response 'YES-FANWHEEL.' Maximo automatically creates a work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'FANHOUSINGDL.'
 - (b) If the issue is related to a damaged pulley, the inspector selects the response 'YES-PULLEY DAMAGED.' Maximo automatically creates a work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'PULLEYDAMAGED.'

Page 9 Index No. 050:21:1 Issued 7/30/2021

NOTE: Common causes of excessive noise or vibration include the following:

- 1. Belt is too tight or too loose
- 2. Defective bearings
- 3. Imbalanced fan wheel
- 4. Wheel improperly aligned and rubbing against the inside of the fan housing
- 5. Loose drive or motor pulleys
- 6. Foreign objects in fan wheel or housing

Common causes of reduced air flow include:

- 1. High system resistance caused by dirty or closed backdraft dampers
- 2. The fan is running backwards
- 3. Excessive dirt buildup on the fan wheel
- 4. Improper wheel alignment

Common causes of a non-operational fan motor include:

- 1. Faulty electrical wiring
- 2. Motor failure

Common causes of air not exhausting from a fan:

- 1. Non-functioning unit
- 2. Bird-screen blocked with heavy dust build-up

For manufacturer's troubleshooting and maintenance recommendations, if the fan is a Direct Drive model (G) or Belt Drive model (GB) manufactured by Greenheck, refer to Appendix D, Greenheck Roof Fans Information. If the fan is not a G or GB model manufactured by Greenheck, check the name of the manufacturer and the model number to search online for the appropriate manufacturer's manual.

- d. Is there a potential motor failure or no power to the motor?
 - (1) If the fan does not have a potential motor failure and there is power to the motor, the inspector responds 'No.'
 - (2) If the fan does have a potential motor failure and/or there is no power to the motor, the inspector attempts to fix the issue, if possible. The two main causes of motor failure or no power to the motor are (1) faulty electrical wiring or (2) the motor has reached the end of its lifecycle.
 - (a) If the cause of the motor failure is faulty electrical wiring and the inspector's actions taken during the inspection resolve faulty electrical wiring, the inspector responds 'CAT-FAULTY ELECTRICAL WIRING.' Maximo automatically creates a closed work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'FANOOO.'

Page 10 Index No. 050:21:1 Issued 7/30/2021

- (3) If actions taken during the inspection do not resolve the issue, the inspector chooses one of the following responses:
 - (a) If the issue is faulty electrical wiring, the inspector responds 'YES-FAULTY ELECTRICAL WIRING.' Maximo automatically creates a work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'FANOOO' or 'EXPOSEDWIRES' or 'FUSEMOOO' or 'NOPOWER.'
 - (b) If the issue is a motor failure, the inspector responds 'YES-MOTOR FAILURE.' Maximo automatically creates a work order against the roof fan asset with a failure class of 'ROOFFAN' and a problem code of 'FANOOO.'

B. Child Work Orders

When a child work order is created during a roof fan inspection:

- The property maintenance supervisor or assistant property maintenance supervisor coordinates the scheduling of skilled trades crafts with the Property Management Department Planning Unit or Technical Services Department.
- The Property Management Department skilled trades deputy director or Technical Services Department deputy director assigns the appropriate craft to perform the repairs.
- 3. Property managers approve any work ordered that is performed by a vendor.

C. Oversight

- 1. Department of Healthy Homes
 - a. Office of Mold Assessment and Remediation Analytics and Process Change Unit employees review the results of autogenerated monthly roof fan inspections to:
 - Identify developments with lengthy child work order completion time frames (greater than 21 days between the roof fan inspection and repair/replacement of the malfunctioning roof fan);
 - (2) Identify developments with high rates of inoperable roof fans (greater than five percent of the roof fans at the development are reported as inoperable within a single month); and
 - (3) Provide reporting and related actionable recommendations to Operations Management pertaining to developments with lengthy child work order completion time frames and high rates of inoperable roof fans to ensure Baez Consent Decree requirements for roof fans are met.

Page 11 Index No. 050:21:1 Issued 7/30/2021

2. Department of Operations

- a. Borough vice-presidents monitor the progress of child work orders and completion of inspections.
- b. Neighborhood administrators:
 - (1) Ensure property managers and property maintenance supervisors monitor roof fan-related work orders in Maximo and address conditions in compliance with this Standard Procedure.
 - (2) Follow up with property managers and property maintenance supervisors to address process issues, including but not limited to providing additional training, reviewing key accountabilities, and/or commencing progressive discipline.
- c. Property maintenance supervisors monitor Maximo for the timely completion of roof fan child work orders and address delays.
- d. Property Management Department skilled trades deputy directors investigate and respond to reports prepared by the Performance Management Department regarding skilled trades issues.
- 3. Department of Quality Assurance

The Office of Quality Assurance reviews randomly selected roof fan work orders to ensure that industry standards are being met. Refer to NYCHA Standard Procedure 059:17:1, *Public Housing Quality Assurance Program*. Quality assurance inspectors generate quality assurance inspection work orders from their handheld devices when on-site.

VIII. OUTPUTS, REPORTS, AND RECORDKEEPING

A. Outputs

- 1. Roof fans operating properly 24 hours per day, seven days per week.
- 2. Reduced mold conditions in apartments where the root cause was determined to be poor ventilation.
- 3. All roof fans in NYCHA public housing developments inspected at least once per month.
- 4. Malfunctioning roof fans repaired or replaced within 21 days of a monthly inspection.

Page 12 Index No. 050:21:1 Issued 7/30/2021

B. Reports

1. The Office of Mold Assessment and Remediation provides a quarterly report on the results of roof fan inspections and work completion times.

C. Recordkeeping

1. The Information Technology Department Maximo Unit retains electronically created and stored completed work orders for at least seven years.

IX. TRAINING REQUIREMENTS

A. All property managers and property maintenance supervisors must review this Standard Procedure and review it with applicable staff.

X. PERFORMANCE METRICS

- A. Completion rate of monthly roof fan inspections.
- B. Number of fan repairs required.
- C. Average time to return roof fans to operation.

XI. NON-COMPLIANCE

- A. NYCHA employees who perform inspections, maintenance, and repairs of roof fans are required to comply with this Standard Procedure.
- B. If unsatisfactory work is identified during either a monthly or quality assurance inspection as described in this Standard Procedure, or at any other time, supervisory employees must:
 - 1. Identify areas of training for staff and ensure such training is provided.
 - 2. Reinforce with the relevant employee(s) the job expectations, accountabilities, and the progressive discipline process.
- C. Failure to comply with the requirements of this Standard Procedure may result in disciplinary actions.
- D. Departments are required to take corrective action to bring NYCHA into compliance.

XII. FORMS

This section intentionally left blank.

Page 13 Index No. 050:21:1 Issued 7/30/2021

XIII. WORKFLOW

This section intentionally left blank.

Page 14 Index No. 050:21:1 Issued 7/30/2021

XIV. REVIEW/REVISION HISTORY PAGE

ROOF FAN INSPECTIONS AT NYCHA RESIDENTIAL BUILDINGS

SP 050:21:1

Review/ Revision	Review/ Revision Date	Sections Amended
1.		
2.		
3.		

XV. APPENDICES

Appendix A – Position Duty Statements

- 1. Operations Departments
 - a. Borough Vice-Presidents
 - (1) Monitor the progress of child work orders and completion of inspections.
 - b. Neighborhood Administrators
 - (1) Ensure property managers and property maintenance supervisors monitor roof fan-related work orders in Maximo and address conditions in compliance with this Standard Procedure.
 - (2) Follow up with property managers and property maintenance supervisors to address process issues, including but not limited to providing additional training, reviewing key accountabilities, and/or commencing progressive discipline.
 - c. Property Managers
 - (1) Approve any work ordered that is performed by a vendor.
 - d. Property Maintenance Supervisors
 - (1) Monitor Maximo for monthly roof fan inspections.
 - (2) Perform monthly roof fan inspections, including any actions that can be taken during the inspections to eliminate identified problems.
 - (3) When a work order is created based on an inspection, coordinate the scheduling of skilled trades crafts with the Property Management Department Planning Unit or Maintenance, Repairs, and Skilled Trades Department.
 - (4) Monitor Maximo for the timely completion of roof fan child work orders and address delays.
 - e. Assistant Property Maintenance Supervisors
 - (1) Monitor Maximo for monthly roof fan inspections.
 - (2) Perform monthly roof fan inspections, including any actions that can be taken during the inspections to eliminate identified problems.

Page 16 Index No. 050:21:1 Issued 7/30/2021

- (3) When a work order is created based on an inspection, coordinate the scheduling of skilled trades crafts with the Property Management Department Planning Unit or Maintenance, Repairs, and Skilled Trades Department.
- f. Skilled Trades Deputy Directors
 - (1) Assign the appropriate craft to perform repairs. Skilled Trades titles that perform work on roof fans include roofers, machinists, and electricians.
 - (2) Investigate and respond to reports prepared by the Performance Management Department regarding skilled trades issues.
- g. Skilled Trades Employees (Property Management)
 - (1) Perform the work created by child work orders.
- h. Skilled Trades Employees (Technical Services Department)
 - (1) Perform the work created by child work orders.
- i. Borough Planning Unit Supervisors
 - (1) When a work order is created based on an inspection, coordinate the scheduling of skilled trades crafts with the property maintenance supervisor.
- i. Maintenance Workers
 - (1) Perform monthly roof fan inspections, including any actions that can be taken during the inspections to eliminate identified problems.
- 2. Department of Healthy Homes
 - a. Office of Mold Assessment and Remediation Senior Manager
 - (1) Manages the duties performed by Office of Mold Assessment and Remediation employees in this standard procedure.
 - b. Employees in the Office of Mold Assessment and Remediation Analytics and Process Change Unit
 - (1) Review the results of autogenerated monthly roof fan inspections.

Page 17 Index No. 050:21:1 Issued 7/30/2021

- 3. Office of Quality Assurance
 - a. Director
 - (1) Performs duties as outlined in NYCHA Standard Procedure 059:17:1, *Public Housing Quality Assurance Program*.
 - b. Inspectors
 - (1) Perform duties as outlined in NYCHA Standard Procedure 059:17:1, *Public Housing Quality Assurance Program*.
 - c. Quality Assurance Officer
 - (1) Perform duties as outlined in NYCHA Standard Procedure 059:17:1, *Public Housing Quality Assurance Program*.

Appendix B – Override/Bypass Switch Supplemental Information

Typical Time Clock

- 1. Remove On/Off Pins- Blue Arrows
- 2. Lift Protective Wire Cover
- 3. Trip Override lever into On Position
- 4. Verify Roof Fans Operating
- 5. Close Cover and Secure
- 6. Post Signage stating clock on Bypass



Override Lever



Page 19 Index No. 050:21:1 Issued 7/30/2021

Time Clock equipped with Separate Bypass Switch

- 1. Remove On/Off Pins- Blue Arrow
- Trip Override Lever into On Position or use manual Bypass Switch- Green Arrows
- 3. Verify Roof Fans Operating
- 4. Close Cover and Secure
- 5. Post Signage stating Clock on Bypass



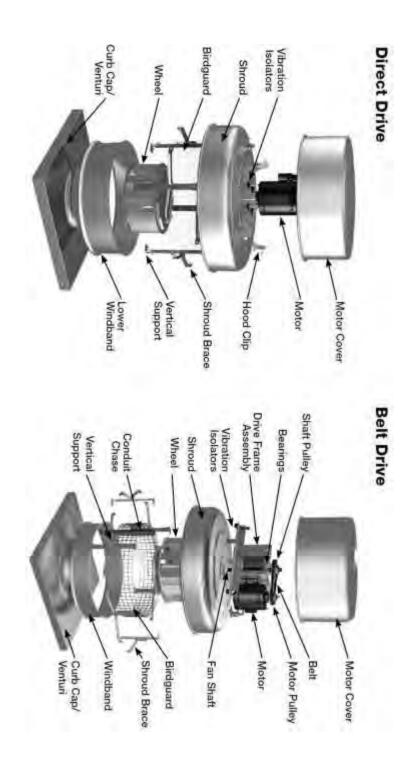
Appendix C – Standard Bypass Sign

ATTENTION: TIMER IS ON BYPASS.

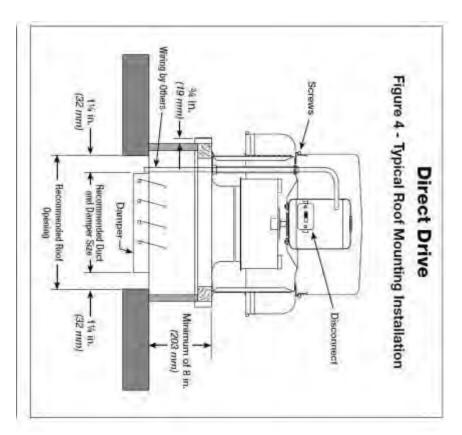
ROOF FAN MUST OPERATE CONTINUOUSLY.

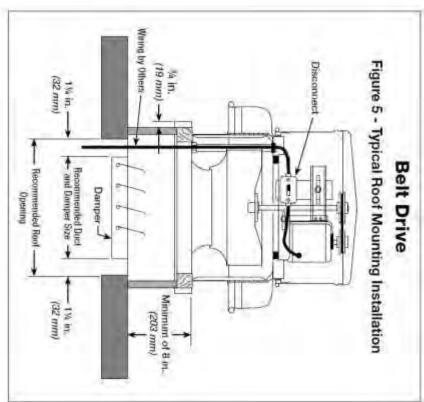
Page 21 Index No. 050:21:1 Issued 7/30/2021

Appendix D – Greenheck Roof Fans Information



Page 22 Index No. 050:21:1 Issued 7/30/2021





Page 23 Index No. 050:21:1 Issued 7/30/2021

PROBLEM	CAUSE	CORRECTIVE ACTION
	Wheel rubbing inlet	Adjust wheel and/or inlet cone. Tighten wheel hub or bearing collars on shaft.
	V-belt drive	Tighten pulleys on motor/fan shaft. Adjust belt tension. Align pulleys properly, see page 6, Figures 9 and 10. Replace worn belts or pulleys.
	Bearings	Replace defective bearing(s), Lubricate bearings. Tighten collars and fasteners.
	Wheel unbalance	Clean all dirt off wheel. Check wheel balance, rebalance in place if necessary.
Excessive	Belts too tight or too loose	Adjust tension, see page 7, Figure 12a-b.
or vibration	Wheel improperly aligned and rubbing	Center wheel on inlet, see page 6, Figure 7.
	Loose drive or motor pulleys	Align and tighten. See "Pre-Starting Checks", see page 6 and 7.
	Foreign objects in wheel or housing	Remove objects, check for damage or unbalance.
	Fan base not securely anchored	Secure properly.
	Motor hood loose and rattling	Tighten fasteners to secure the motor hood.
High horsepower Fan does not operate Motor overloads	Defective or loose motor bearings	Replace motor with same frame size, RPM-HP.
24	Fan	Check rotation of wheel, see page 6, Figure 8. Reduce fan speed.
the Contract of the Contract o	Duct system	Adjust wheel and/or inlet cone. Tighten wheel hub or bearing collars on shaft. Tighten pulleys on motor/fan shaft. Adjust belt tension. Align pulle property, see page 6, Figures 9 and 10. Replace worn belts or pullesplace defective bearing(s). Lubricate bearings. Tighten collars and fasteners. Clean all dirt off wheel. Check wheel balance, rebalance in place if necessary. Adjust tension, see page 7, Figure 12a-b. Id. Center wheel on inlet, see page 6, Figure 7. Align and tighten. See "Pre-Starting Checks", see page 6 and 7. Remove objects, check for damage or unbalance. Secure properly. Tighten fasteners to secure the motor hood. Replace motor with same frame size, RPM-HP. Check rotation of wheel, see page 6, Figure 8. Reduce fan speed Resize ductwork. Check proper operation of face and bypass dar Check filters and access doors. Check for correct supply voltage. Check for broken belts. Tighten loose pulleys or belts. Ensure motor is correct horsepower and not tripping overload procheck for excessive or insufficient grease in the bearing. Replace damaged bearing. Relieve excessive belt tension. Align bearings. Check for bent shaft. Adjust tension or replace bad belts, see pages 6 and 7. Contact power company. Check motor wiring, see page 5, Figure 4. Confirm wheel rotation page 6, Figure 8. Check motor wiring to wiring diagram located on fan motor. Check motor wiring to wiring diagram located on fan motor. Check motor wiring to wiring diagram located on fan motor. Check motor wiring to wiring diagram located on fan motor. Check motor wiring to wiring diagram located on fan motor. Check motor wiring to wiring diagram located on fan motor. Check motor wiring to wiring diagram located on fan motor. Check motor wiring to wiring diagram located on fan motor. Check system: Proper operation of backdraft or control dampers obstruction in ductwork, clean dirty filters.
Fan does not operate	Electrical supply	
	Drive	Check for broken belts. Tighten loose pulleys or belts.
	Wheel rubbing inlet V-belt drive V-belt drive V-belt drive Dearings Replace defective bearing(s), Lubricate bearings. Tighten collars and fasteners. Wheel unbalance Dearings Replace defective bearing(s), Lubricate bearings. Tighten collars and fasteners. Wheel unbalance Delts to tight or too loose Wheel improperly aligned and rubbing Loose drive or motor pulleys Foreign objects in wheel or housing Fan base not securely anchored Motor hood loose and rattling Defective or loose motor bearings Pan Check rotation of wheel, see page 6, Figure 8. Redu Replace motor with same frame size, RPM-HR. Resize ductwork. Check proper operation of face an Check filters and access doors. Check fuses/circuit breakers. Check for switches off Check for correct supply voltage. Drive Check for broken belts. Tighten loose pulleys or belt Motor Ensure motor is correct horsepower and not tripping Lubrication Mechanical Belt slippage Over/Under line voltage Contact power company. Wheel RPM too high Check drives or slow down fan by opening variable y motor wired incorrect wheel rotation in ductwork, clean dirty filters. Unitersurance of the check proper operation of backdraft or conditions in ductwork, clean dirty filters. Check motor wiring, see page 5, Figure 4. Confirm v page 8, Figure 8. Check motor wiring to wiring diagram located on far Check drives or slow down fan by opening variable y motor shaft. Unitersized motor Motor wired incorrectly Check motor wiring to wiring diagram located on far Check whose not page 8, Figure 8. Excessive dirt buildup on wheels Clean wheel on inlet, see "Pre-Starting Checks" on inspect and repair. Check motor wiring to wiring diagram located on far Check whose on slow down fan by opening variable y motor shaft. Unitersurance too high Check motor wiring to wiring diagram located on far Check motor wiring to wiring diagram located on far Check motor wiring to wiring diagram located on far Check motor wiring to wiring diagram located on far Check motor wiring to w	Ensure motor is correct horsepower and not tripping overload protector
V-belt drive V-belt drive Replace defective bearing(s). Tighten pulleys on motor/fan properly, see page 6, Figures properly. See page 6, Figures are page 7, Fighten collars and fasteners Clean all dirt off wheel. Check wheel balance, rebalations or vibration Excessive noise or vibration Belts too tight or too loose Wheel improperly aligned and rubbing Loose drive or motor pulleys Align and tighten. See "Pre-S Foreign objects in wheel or housing Fan base not securely anchored Motor hood loose and rattling Defective or loose motor bearings Fan Check for dation of wheel, see Fan does not operate Belt stippage Dirive Check for cornect supply volt check for cornect supply volt of possible or overheats Motor Dirive Check for excessive or insuff Replace damaged bearing. Refigure 3. Mechanical Belt slippage Over/Under line voltage Over/Under line voltage Check for excessive or insuff motor wiring, see page 7, Figure 3. Wheel RPM too high Undersized motor Check motor wiring, see page 7, Figure 3. Check for excessive or insuff motor shaft. Undersized motor Motor wired incorrectly Check for excessive or slow down far motor wiring to wiring System resistance too high Check system: Proper operat obstruction in ductwork, clear wheel. Improper wheel alignment Center wheel on inlet, see "P Dampers closed Bit slippage Replace and adjust tension or replace. Belt slippage Replace and adjust tension on page 6. Excessive dirt buildup on wheels. Clean or replace. Belt slippage Replace and adjust tension.	Check for excessive or insufficient grease in the bearing.	
	Mechanical	
	Belt slippage	
	Over/Under line voltage	Contact power company.
7 (7 107 10 7 7 1	Incorrect wheel rotation	Check motor wiring, see page 5, Figure 4. Confirm wheel rotation, see page 6, Figure 8.
	Wheel RPM too high	Check drives or slow down fan by opening variable pitch pulley on motor shaft.
Wheel rubbing V-belt drive Bearings Wheel unbate Excessive noise or vibration Excessive noise or vibration Wheel improrubbing Loose drive Foreign objet housing Fan base not Motor hood Defective or bearings Fan Duct system Electrical su Drive Motor Lubrication Mechanical Belt slippage Over/Under overloads or overheats Reduced airflow Wheel RPM Undersized Motor wired System resist Unit running Excessive d Improper with Dampers clic Blocked duct Belt slippage	Undersized motor	Check motor ratings with catalog speed and air capacity chart,
	Motor wired incorrectly	
	System resistance too high	Check system: Proper operation of backdraft or control dampers, obstruction in ductwork, clean dirty filters.
	Unit running backwards	
Committee of the commit		
Committee of the commit		
	ACCURACIONAL PLAN	Del No Con Con Labor de Presidente de la constante de la const

Page 24 Index No. 050:21:1 Issued 7/30/2021

Model Number Code



Page 25 Index No. 050:21:1 Issued 7/30/2021

NYCHA STANDARD PROCEDURE MANUAL (SP 040:18:2)
LEAD SAFETY FOR RENOVATION, REPAIR & PAINTING

SP 040:18:2, LEAD SAFETY FOR RENOVATION, REPAIR, AND PAINTING

TABLE OF CONTENTS

I.	PURPOSE	1
II.	POLICY	1
III.	APPLICABILITY	1
IV.	DEFINITIONS	2
V.	REVIEW CYCLE	4
VI.	RESPONSIBILITIES	4
Α.	Operations Departments	4
B.	Lead Hazard Control Department	5
C.	Human Resources Department	5
VII.	WORKFLOW	6
VIII.	PROCEDURE	14
Α.	Assigning Certified Renovators	14
B.	Pre-Renovation Notice to Residents	17
C.	Dust Wipe Work Orders	19
D.	Renovation, Repair, and Painting Work	20
E.	Employee Safety	21
F.	Supplies	.21
G	Setting Up	. 23
Η.	Performing Work	26
I.	Cleaning Up	. 27
J.	•	29
K.		
IX.	OUTPUTS, REPORTS, AND RECORDKEEPING	32
Α.	Outputs	. 32
B.	Reports	. 32
C.	I J	
Χ.	TRAINING REQUIREMENTS	
XI.	PERFORMANCE METRICS	33
XII.	NON-COMPLIANCE	33
	FORMS	
XIV.	REVIEW/REVISION HISTORY PAGE	
	APPENDICES	
Α.	Lead Safe Practices Vendor Notice	35
B.	RRP Supplemental Workflow	37

Table of Contents Page i Index No. 040:18:2 Issued 12/31/2018

I. PURPOSE

The purpose of this Standard Procedure is to provide instructions to employees on how to comply with applicable federal and local lead-based paint requirements when performing renovation, repair, and painting (RRP) work in public housing apartments, common areas, or exteriors where lead-based paint may be present.

This Standard Procedure does not provide complete operational instructions for performing RRP work. For more detailed information, please refer to the *Renovation*, *Repair*, and *Painting Training Manual* on the Forms and Reference Library in the Other Publications section.

II. POLICY

It is the policy of NYCHA to follow the requirements set forth in federal and local laws and regulations for performing RRP work, including but not limited to:

- A. Lead-Based Paint Poisoning Prevention Act, as amended (42 U.S.C. 4821 et seq.)
- B. Residential Lead-Based Paint Hazard Reduction Act of 1992 (42 U.S.C. 4851 et seg.)
- C. U.S. Department of Housing and Urban Development (HUD) regulations at 24 CFR Part 35 ("Lead Law")
- D. U.S. Environmental Protection Agency (EPA) regulations at 40 CFR Part 745 Subpart E ("RRP Rule")
- E. Local Law 1, NYC Admin. Code§§ 27-2056 ("New York City Childhood Lead Poisoning Prevention Act of 2003")

III. APPLICABILITY

Maximo flags locations in which lead-based paint is or may be present, and identifies when RRP requirements must be met. If a Maximo work order identifies that RRP is required, all painted surfaces must be presumed to be lead-based paint.

Page **1**

This Standard Procedure applies to all RRP work in apartments, common areas, or exteriors, if Maximo identifies the work order as such, and if:

- A. The work disturbs two (2) square feet or more of presumed lead-based paint per room, or more than 10 percent of a single small component per room, in apartments and common areas; or
- B. The work disturbs more than 20 square feet of lead-based paint on exteriors.

IV. DEFINITIONS

A. Certified Renovator

An individual who successfully completes a renovator course accredited by the federal Environmental Protection Agency (EPA) or an EPA-authorized State or Tribal program.

B. Child-Occupied Facility

A building, or portion of a building, constructed prior to 1978, that meets all three (3) of the following conditions:

- 1. Visited regularly by the same child, younger than six (6) years old;
- 2. The visits are on at least two different days within any week, provided that each day's visit lasts at least three 3 hours; and
- 3. Combined weekly visits last at least six (6) hours, and the combined annual visits last at least 60 hours.

C. Common Area

Part of a residential property available for use by occupants of more than one apartment, including, but not limited to, hallways, stairways, laundry rooms, recreational rooms, community centers, on-site day care facilities, garages, and exteriors.

D. Component

A specific design or structural element or fixture distinguished by its form, function, and location. Examples include, but are not limited to:

- 1. Counter tops
- 2. Doors and trim
- 3. Walls

Page 2 Index No. 040:18:2 Issued 12/31/2018

4. Window sills and sashes

5. Windows and trim

E. Containment

A system of temporary barriers used to isolate a work area so that no dust or debris escapes while work is being performed.

F. Disposable Soft Wipe Method

A method of cleaning that uses a flip mop with wet disposable soft wipes.

G. Disturbed Paint Surface

A paint surface that is scraped, sanded, cut, penetrated, or otherwise affected by work in a manner that could potentially create a lead-based paint hazard by generating dust, fumes, or paint chips.

H. Dust Clearance Examination

An examination to confirm no lead dust remains in a work area after it is cleaned. The examination includes a visual inspection and a dust wipe.

I. Emergency Renovations and Repairs

Unscheduled renovation and repair activities that were not planned but result from a sudden, unexpected event that, if not immediately attended to, presents a safety or public health hazard, or threatens equipment and/or property with significant damage.

J. Exterior

Any area outside of a building, including but not limited to exterior walls, playgrounds, and boundary fences.

K. HEPA Vacuum

A vacuum with filters that is capable of trapping extremely small particles. HEPA stands for High-Efficiency Particulate Air.

L. Maximo

A computer software application used by NYCHA to support maintenance and repairs.

M. Renovation

Any activity that disturbs painted surfaces and includes most repair, remodeling, and maintenance activities including windows replacement.

N. Renovation, Repair, and Painting (RRP) Certification

A certification provided by trainers approved by the EPA after a worker has successfully completed a Certified Renovator training program. A worker must have up-to-date RRP certification to perform RRP work that might disturb lead-based paint.

O. Two-Bucket Method

A method of cleaning that uses one bucket filled with a cleaning agent/water solution, and another bucket filled with clean water.

P. Vendor

A third party under contract with NYCHA.

V. REVIEW CYCLE

The Department of Operations shall review this Standard Procedure every one (1) year, or earlier if necessary; and advise the Department of Procedures Development and Administration via e-mail if no changes are needed, or submit its revisions to the procedure by submitting NYCHA Form 022.008, *Procedure Development Request*.

VI. RESPONSIBILITIES

This Standard Procedure applies to the following titles who may perform RRP work, and their supervisors:

A. Operations Departments

- 1. Property Managers
- 2. Assistant Property Managers
- 3. Property Maintenance Supervisors
- 4. Assistant Property Maintenance Supervisors
- 5. Maintenance Workers
- 6. Supervisor Bricklayers

Page 4 Index No. 040:18:2 Issued 12/31/2018

- 7. Bricklayers
- 8. Supervisor Carpenters
- 9. Carpenters
- 10. Supervisor Painters
- 11. Painters
- 12. Apprentices (Painter)
- 13. Supervisor Plasterers
- 14. Plasterers
- 15. Supervisor Plumbers
- 16. Plumbers
- 17. Plumber's Helpers
- 18. Electricians
- 19. Emergency Services Aides
- 20. Caretaker Ps
- 21. Mason's Helpers
- 22. Asbestos Handlers
- B. Lead Hazard Control Department
 - 1. Lead Abatement Workers
 - 2. Contract Administrator
 - 3. Environmental Health and Safety Coordinator
- C. Human Resources Department
 - 1. Deputy Director of Learning and Development

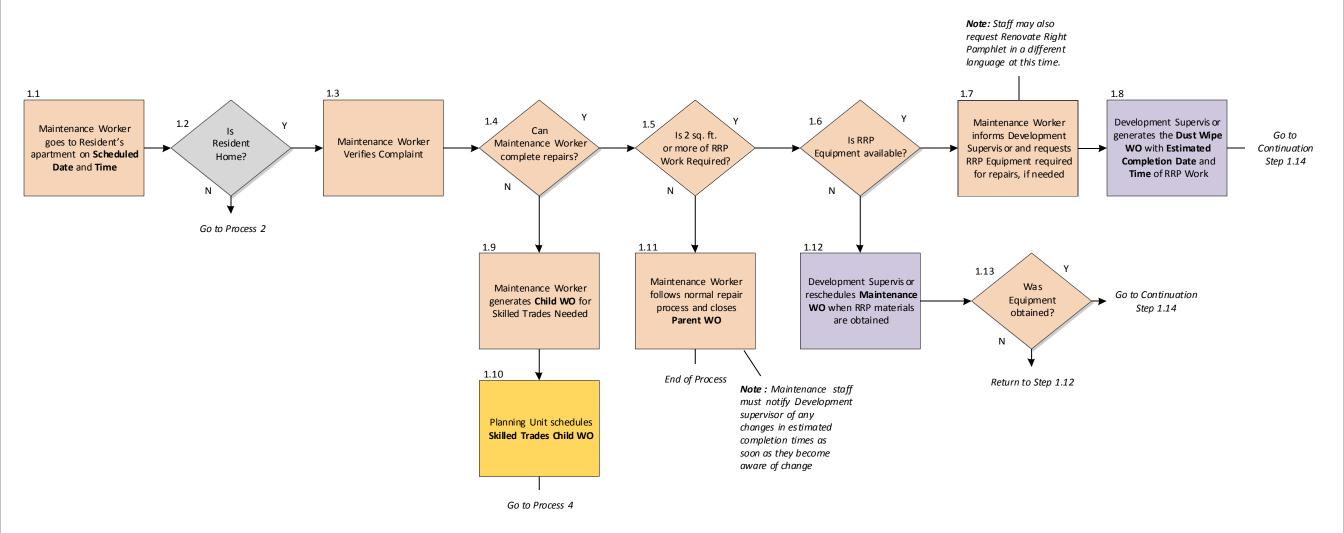
Page 5 Index No. 040:18:2 Issued 12/31/2018

VII. WORKFLOW

In addition to the flow charts which begin on the following page, also refer to Appendix XV.B., RRP Supplemental Workflow.

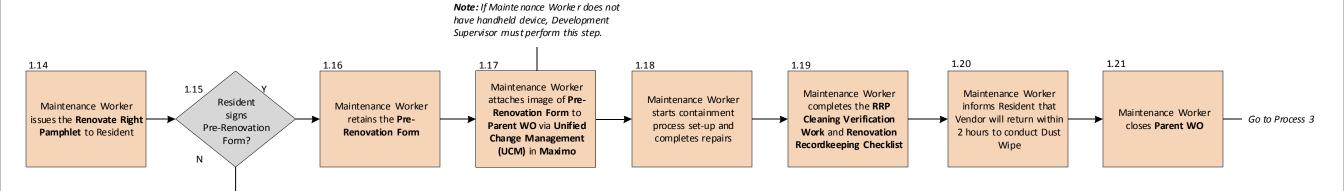
Page 6 Index No. 040:18:2 Issued 12/31/2018

Process 1: Maintenance Worker Verifies Complaint



Page 7 Index No. 040:18:2 Issued 12/31/2018

Process 1: Maintenance Worker Verifies Complaint (Continuation)



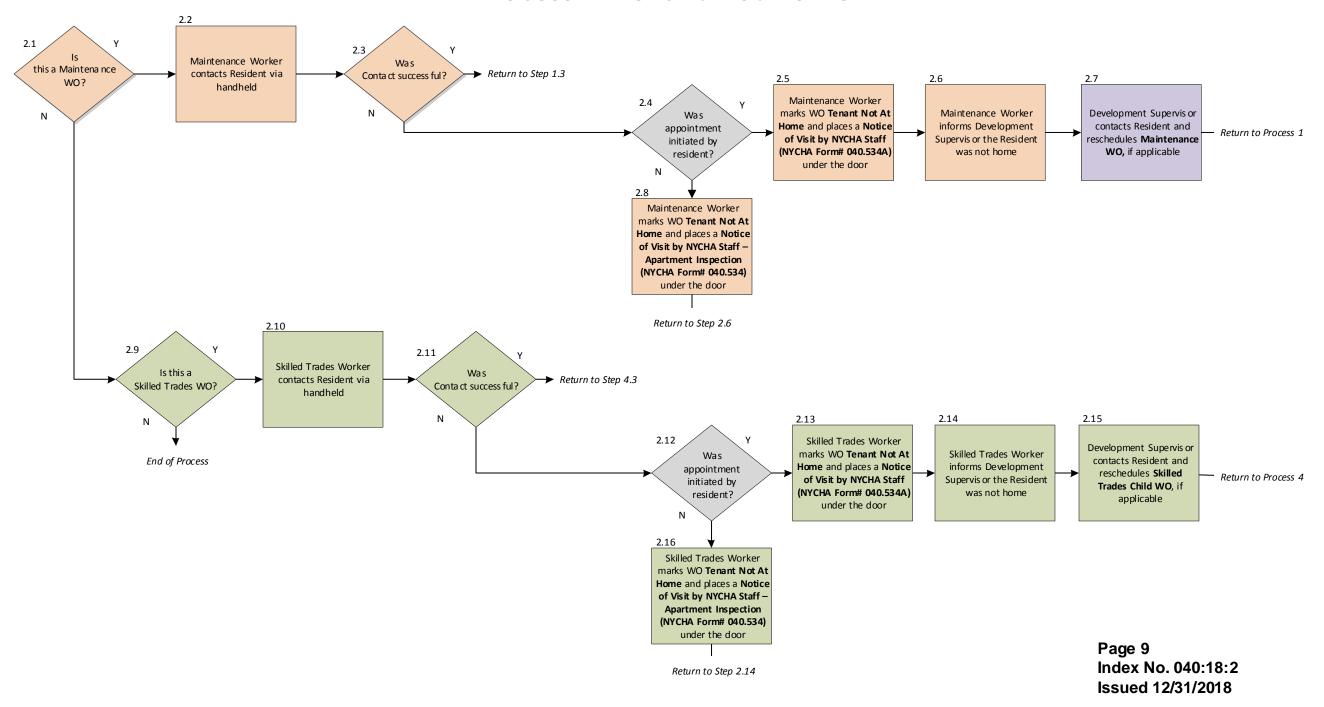
Page 8 Index No. 040:18:2 Issued 12/31/2018

1.22

Maintenance Worker completes the Renovator's Self Certification Option

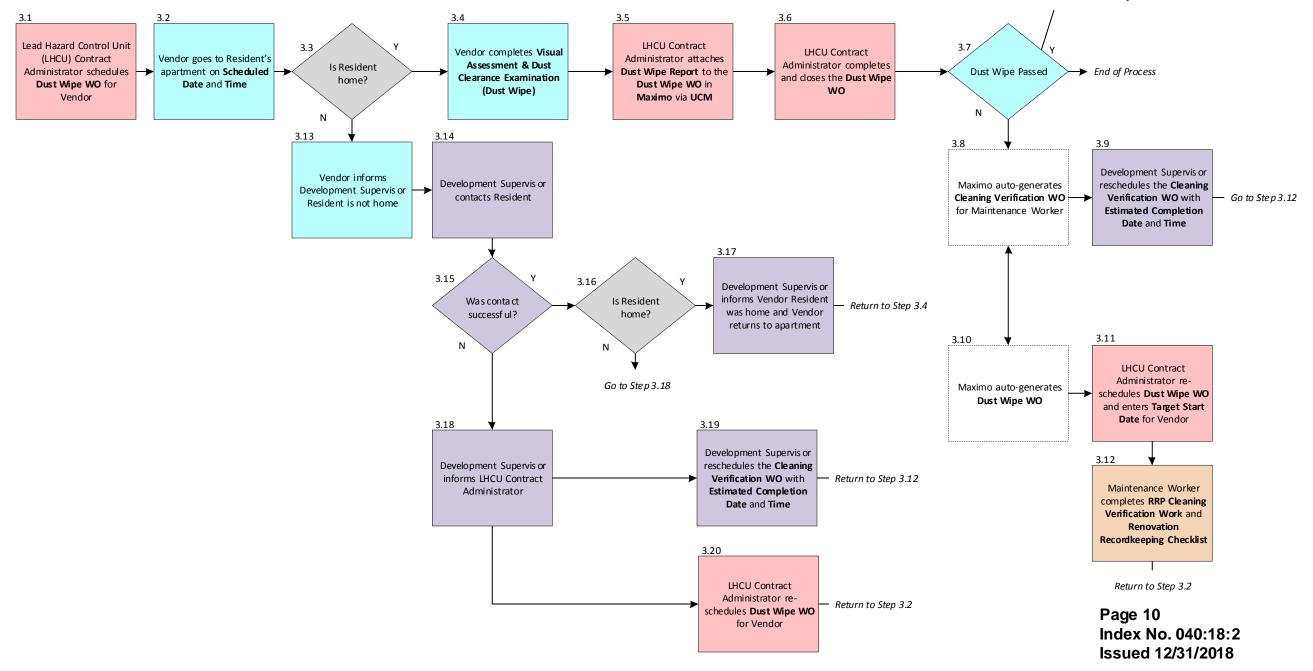
Return to Step 1.17

Process 2: Tenant Not Home

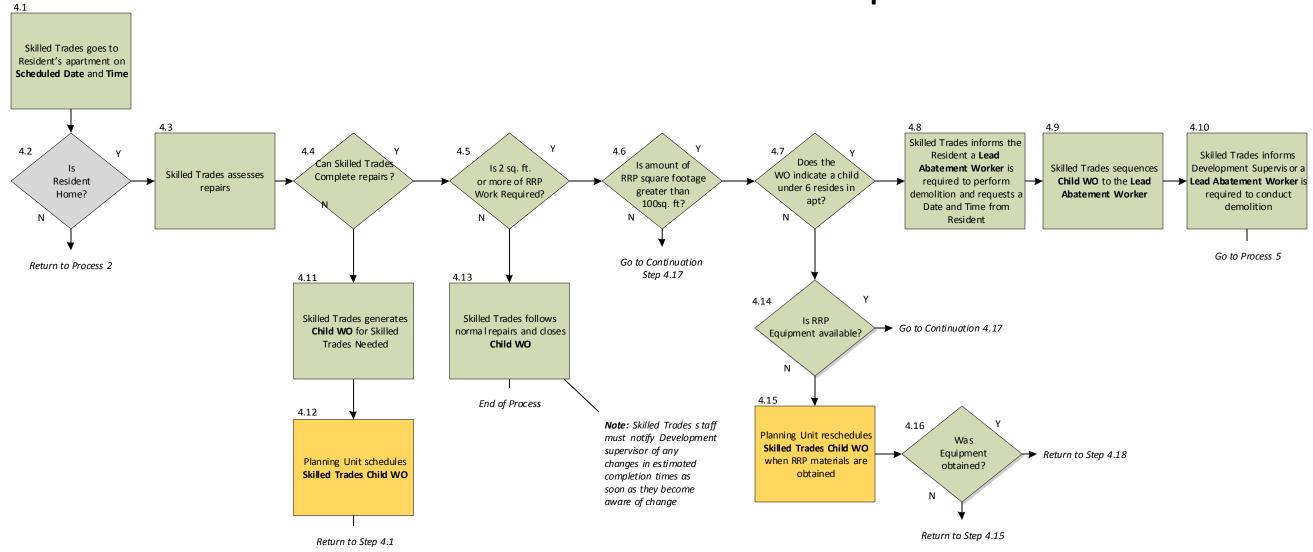


Process 3: Vendor Conducts Dust Clearance Examination

Note: Dust Clearance results may be available within 8 hours dependent on date and time of collection.

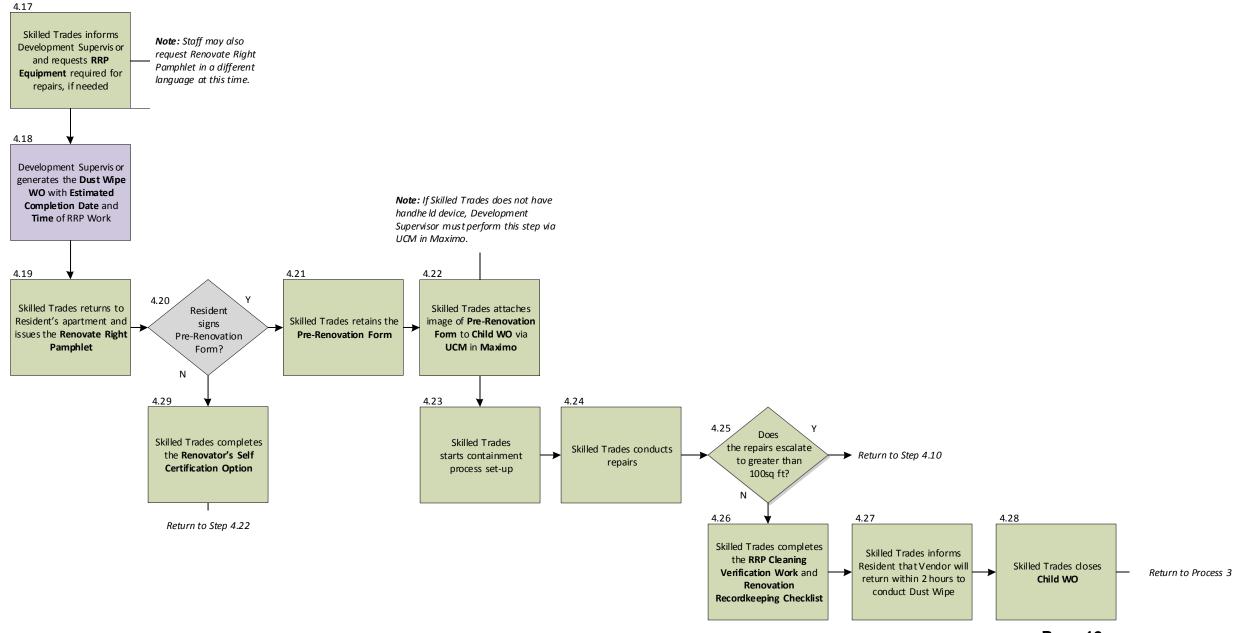


Process 4: Skilled Trades Verifies Complaint



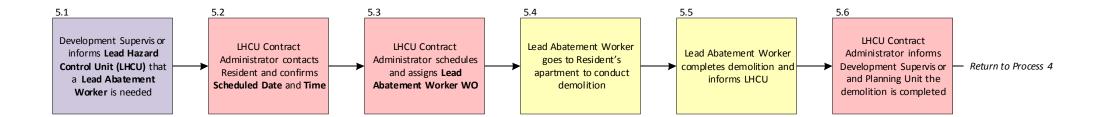
Page 11 Index No. 040:18:2 Issued 12/31/2018

Process 4: Skilled Trades Verifies Complaint (Continuation)



Page 12 Index No. 040:18:2 Issued 12/31/2018

Process 5: Lead Abatement Worker Conducts Demolition



VIII. PROCEDURE

A. Assigning Certified Renovators

Only Certified Renovators can perform Renovation, Repair, and Painting (RRP) work that requires RRP certification.

- 1. A maintenance work order is created in Maximo.
 - a. Maximo displays one of the following messages on all corrective maintenance (CM) work orders printed or handheld where lead-safe practices may be required:
 - "CAUTION: If paint is disturbed, work must be assigned to only RRP-certified staff/vendor and Lead Safe Work Practices must be followed." (Orange message)
 - (2) "ACTION REQUIRED: RRP-certified staff/vendor must be used and Lead Safe Work Practices must be followed." (Red message)
 - b. For the work to be performed, Maximo reflects in work order tracking the Failure Class/Problem Codes for which Certified Renovators are required. The list is available at this link: http://connect/private/Operations/PM/Interim%20Guidance1/Lead%20Safe.
 - c. To locate the complete list of apartments that require RRP:
 - (1) Go to the Locations application in Maximo
 - (2) On the top left of the screen, expand the public queries icon
 - (3) Select 'RRP required NYCHA Apartments'
 - d. Supervisors are not permitted to assign work that requires a Certified Renovator to employees who are not Certified Renovators. If an employee who is not a Certified Renovator is assigned to complete a work order that has the ACTION REQUIRED message noted above, the employee must tell their immediate supervisor that they are not certified to complete the work order.
 - e. In Assignment Manager and ESD Dispatching, the Labor List has a field to indicate which employees are Certified Renovators. The RRP certification information is imported from the Human Resources Database daily.
- 2. A maintenance worker verifies the work that needs to be performed.
- 3. If during verification, the maintenance worker disturbs more than two (2) square feet or more of presumed lead-based paint, then RRP procedure must be followed.

Page 14 Index No. 040:18:2 Issued 12/31/2018 **NOTE:** From this point forward, the NYCHA worker performing the RRP work is referred to as the employee.

4. Determination of RRP Work

- a. For all Maximo work orders where lead-safe practices may be required, the employee brings the equipment required to perform RRP work when they go to the work site. If additional supplies are needed, the employee contacts the supervisor to have it delivered to the location. See Section VIII.E., Employee Safety, and Section VIII.F., Supplies, below.
- b. When the employee goes to the work site, the employee determines if lead-based RRP work is required based on the following criteria.
 - (1) Work must be performed by a Certified Renovator if an interior surface that will be disturbed is two (2) square feet or more, or more than 10 percent of a small component per room or area.
 - (2) Work must be performed by a Certified Renovator if an exterior surface:
 - (a) Has more than 20 square feet of lead-based paint; or
 - (b) More than 10 percent of the total surface area of a component with a small surface area contains lead-based paint.
 - (3) Work must be performed by a Certified Renovator if the work includes window replacement, demolition, or activities involving prohibited practices (see Section VII.H.6., below).
- c. If the employee determines lead-based RRP work is required or if the estimated completion date or time changes, they make the indication on the work order in Maximo and immediately inform the development's property maintenance supervisor. The supervisor then contacts the contract administrator, who notifies the vendor of the change.
- d. If the employee determines RRP work on an interior surface will disturb more than 100 square feet of lead-based paint per room, or will include the removal of two or more painted windows, the work must be completed by lead abatement workers if:
 - (1) A child younger than six (6) years old lives in the apartment, as identified in Maximo; or
 - (2) The work is in a child-occupied facility.

For more information, see Section VIII.K., Work Disturbing More Than 100 Square Feet or Removing Two or More Painted Windows, below.

Page 15 Index No. 040:18:2 Issued 12/31/2018 NOTE: Employees should follow proper safety and dust control measures even when RRP work is determined to not be required, as described in the following sections: VIII.E., Employee Safety; VIII.G., Setting Up; VIII.H., Performing Work; and VIII.I., Cleaning Up.

e. If the employee determines lead-based RRP work is not required, they follow the normal repair process.

Vendors

- a. Property maintenance supervisors ensure vendor employees:
 - (1) Are Certified Renovators.
 - (2) Have their RRP certificates on file at the development.
 - (3) Follow lead-safe work practices under federal and local law and regulations.
 - (4) Provide the required notifications.
- b. Developments provide vendors with the vendor notice explaining these obligations. See Appendix A, Lead Safe Practices Vendor Notice.
- 6. Exemption for Emergency Renovations
 - a. The cleaning and cleaning verification requirements set forth in this policy are required for emergency renovations.
 - b. For emergency renovations immediately necessary to safeguard against imminent danger to human life, health, or safety, or to protect property from further major damage, tenants must be protected from exposure to lead in dust and debris generated by such emergency actions to the extent practicable. Such emergencies include, but are not limited to, when property is damaged by:
 - (1) Natural disaster
 - (2) Fire
 - (3) Structural collapse
 - (4) Cascading water
 - (5) Lack of utilities

- c. The exemptions listed below only apply to repairs immediately necessary to respond to the emergency.
 - (1) Emergency renovations are exempt from requiring Certified Renovators to perform the work, to the extent necessary to respond to the emergency.
 - (2) The RRP requirements listed in the following sections are not required to be followed during an emergency renovation, to the extent necessary to respond to the emergency:
 - (a) Section VIII.B., Pre-Renovation Notice to Residents
 - (b) Section VIII.G., Setting Up
 - (c) Section VIII.H., Performing Work

NOTE: RRP requirements apply to any work undertaken subsequent to or above and beyond such emergency actions.

B. Pre-Renovation Notice to Residents

- 1. The property manager and/or the property maintenance supervisor ensures sufficient copies of the EPA pamphlets, NYCHA Form 060.632, *The Lead-Safe Certified Guide to Renovate Right*, and NYCHA Form TR060632_02, *The Lead-Safe Certified Guide to Renovate Right Spanish Translation*, are available in the management office.
- 2. Work cannot begin in any location without all required documentation in this section being completed.

NOTE:	If the scope, locations, and/or scheduled work start and end dates change
	after NYCHA Form 060.632A, Pre-Renovation Form, and/or NYCHA
	Form 088.183, Resident Renovation Notification Common Area are
	provided, the employee provides an updated notice with the revised
	information. The updated notice must be provided before the work beyond
	what was described in the original notice begins.

3. Apartments

Resident notification for RRP work in apartments can be accomplished via hand delivery or via mail with a Certificate of Mailing.

a. Hand Delivery

- (1) The employee provides a hard copy of NYCHA Form 060.632, The Lead-Safe Certified Guide to Renovate Right, or NYCHA Form TR060632_02, The Lead-Safe Certified Guide to Renovate Right Spanish Translation, to the affected apartment(s).
- (2) The pamphlet must be provided no earlier than 60 days before, and no later than immediately before, beginning a renovation applicable to this Standard Procedure.
- (3) The employee uses NYCHA Form 060.632A, *Pre-Renovation Form*, to:
 - (a) Obtain the written acknowledgement of receipt from an adult representative in the apartment; or
 - (b) Document that the pamphlet was delivered but the employee was unable to obtain written acknowledgement.
- (4) The property maintenance supervisor ensures the completed form is uploaded to the Maximo work order, via either photo or scanning.
- b. Mail with a Certificate of Mailing

If the pamphlet is sent via mail with a Certificate of Mailing, it must be sent no earlier than 60 days before, and no later than seven (7) days before beginning the renovation. See NYCHA Standard Procedure 005:11:1, *Mail Center Operations*, for more information.

4. Common Areas and Exteriors

A development notifies the residents of the affected apartments in a building no more than 60 days before, and no less than immediately before, beginning a renovation in a common area.

- a. The information provided in the notice must include:
 - (1) A description of the nature and location of the work
 - (2) The scheduled work start and end dates
 - (3) Information on how to obtain a copy of NYCHA Form 060.632, *The Lead-Safe Certified Guide to Renovate Right*, and NYCHA Form TR060632_02, *The Lead-Safe Certified Guide to Renovate Right Spanish Translation*.

Page 18 Index No. 040:18:2 Issued 12/31/2018

- b. The information may be provided by the following methods:
 - (1) Posting copies of NYCHA Form 088.183, *Resident Renovation Notification Common Area*, where they are likely to be seen by the residents of all affected apartments; or

NOTE: For recordkeeping purposes, if the employee has a NYCHA-issued handheld device, the employee takes a photo of the posted forms and uploads them to the Maximo work order.

If the employee does not have a NYCHA-issued handheld device, the employee informs the property maintenance supervisor, who ensures a copy of the form is uploaded to the Maximo work order.

- (2) Hand delivery of NYCHA Form 060.632, The Lead-Safe Certified Guide to Renovate Right, or NYCHA Form TR060632_02, The Lead-Safe Certified Guide to Renovate Right Spanish Translation, to every affected apartment in the building; or
- (3) Mail NYCHA Form 060.632, *The Lead-Safe Certified Guide to Renovate Right*, or NYCHA Form TR060632_02, *The Lead-Safe Certified Guide to Renovate Right Spanish Translation*, with a Certificate of Mailing, to every affected apartment in the building
 - (a) If the pamphlet is sent via mail with a Certificate of Mailing, it must be sent no less than seven (7) days before beginning the renovation. See NYCHA Standard Procedure 005:11:1, *Mail Center Operations*, for more information.

Child-Occupied Facilities

If an apartment or common area is considered a child-occupied facility, the employee:

- a. Provides NYCHA Form 060.632A, *Pre-Renovation Form*, to a representative of the facility; and
- b. Posts NYCHA Form 088.183, Resident Renovation Notification Common Area, in the work area; or
- c. Provides a copy of the form to the parents or guardians of all children who use the facility.

C. Dust Wipe Work Orders

Any time RRP work is required, a dust wipe work order must be created. The dust wipe work order is created before RRP work begins to facilitate scheduling of the dust wipe vendor.

Page 19 Index No. 040:18:2 Issued 12/31/2018

- 1. A dust wipe work order can be created by paper or handheld device.
 - a. Paper Work Order

The employee informs the property maintenance supervisor or assistant property maintenance supervisor of the need to create a dust wipe work order in Maximo for a vendor to perform a wipe inspection upon completion of the work.

b. Handheld Device Work Order

The employee selects the 'Yes' button on their handheld device. This automatically creates a dust wipe work order and sends an e-mail to the property maintenance supervisor and Lead Hazard Control Department contract administrator.

- 2. The property maintenance supervisor or assistant property maintenance supervisor:
 - a. Generates the work order with the following codes:

(1) Owner group: TSDECS

(2) Failure class: Lead

(3) Problem code: leadindustclearance

b. Enters the estimated date and time of completion of the work in the Target Start section.

NOTE: If the estimated completion date or time changes, the development's property maintenance supervisor immediately contacts the contract administrator, who notifies the vendor of the change.

- 3. The Lead Hazard Control Department contract administrator schedules a dust wipe work order for a vendor based on the target start date entered on the parent work order.
 - a. The vendor is required to be on-site to perform a dust clearance examination in accordance with the terms of their contract.
- D. Renovation, Repair, and Painting Work
 - 1. Employees must have their certifications, including any refresher course certifications, with them on-site when they perform RRP work.
 - a. Employees must carry a physical copy of the certification with them; or
 - b. Must have an electronic copy of the certification on their mobile device.

Page 20 Index No. 040:18:2 Issued 12/31/2018

- 2. The employee sets up containment of the work area. See Section VIII.G., Setting Up, below.
- 3. The employee performs the work. See Section VIII.H., Performing Work, below.
- 4. The employee cleans the work area. See Section VIII.I., Cleaning Up, below.
- 5. The employee begins the clearance process. See Section VIII.J., Clearance, below.

NOTE: If a tenant is not home during any part of the work process, refer to the Tenant Not Home flow chart above in Section VII.B.

E. Employee Safety

- 1. Personal Protective Equipment (PPE)
 - a. All employees performing work under this Standard Procedure are recommended to use the following:
 - (1) Disposable coveralls, including hood and shoe covering
 - (2) Gloves
 - (3) Head covering
 - (4) Respiratory protection (Disposable N-100, P-100, or R-100 respirators)
 - (5) Safety goggles
- 2. Make It Safe

If an employee recognizes a hazard that could cause harm to themselves or coworkers, they must stop the hazardous task, or stop working in the hazardous condition. Please refer to NYCHA Standard Procedure 001:15:3, *Make It Safe Process*, for more information.

F. Supplies

- 1. The property manager and property maintenance supervisor ensure an adequate amount of supplies from the list below are maintained. It is recommended that each HEPA vacuum be packaged as a set by including all the items listed below and assigned to employees as needed.
 - a. HEPA vacuum and filters

Page 21 Index No. 040:18:2 Issued 12/31/2018

- b. 6 mil polyethylene sheeting (for floors)
- c. 2 mil polyethylene sheeting (for furniture and fixtures)
- d. 6 mil polyethylene bags
- e. Flip mops
- f. Wet disposable soft wipes
- g. 2 string mops
- h. 2 buckets and wringer(s)
- i. Lead-specific cleaning detergent
- j. Water mister or spray bottle
- k. Duct tape
- Painters tape
- m. Utility knife
- n. Paper towels / rags
- o. NYCHA Form 060.632, The Lead-Safe Certified Guide to Renovate Right
- p. NYCHA Form 088.182, Renovation, Repair, and Painting Safety Sign
- 2. Employees can check with the property maintenance supervisor or assistant property maintenance supervisor for the location of the required supplies at the development.
 - a. If all of the required supplies are not available, the employee changes the status of the work order to 'awaiting material,' and reschedules the work.
 - b. If the work is an emergency renovation and all of the required supplies are not available, the employee ascertains if the work can be completed with the materials that are present.

G. Setting Up

1. Signage

- a. Outside the Work Area
 - (1) Employees post NYCHA Form 088.182, *Renovation, Repair, and Painting Safety Sign*, before work begins.
 - (2) The signs are posted at each entrance to a work area to define the work area, and/or at each main and secondary entrance to a building.
 - (3) The signs must remain until cleaning verification is completed.
 - (4) Translations of NYCHA Form 088.182, *Renovation, Repair, and Painting Safety Sign*, are kept in the Property Management Office. They are provided to any resident who requests one.
 - (a) Spanish: NYCHA Form TR088182 02
 - (b) Russian: NYCHA Form TR088182_03
 - (c) Chinese: NYCHA Form TR088182_04
- b. Inside the Work Area

The employees post NYCHA Form 088.182, *Renovation, Repair, and Painting Safety Sign*, inside each contained work area.

2. Site preparation

Before beginning the RRP work, the employees prepare the work area using the following actions.

- a. Apartments, Common Areas, and Child-Occupied Facilities
 - (1) In apartments, discuss the following with the resident:
 - (a) Extent of containment needed
 - (b) How the containment area will be prepared
 - (c) Advise residents not to enter the containment area until after clean-up
 - (d) Direct residents not to allow children to enter any area in which plastic sheeting is being used or stored due to the risk of suffocation

Page 23 Index No. 040:18:2 Issued 12/31/2018

- (2) Secure the apartment and/or work area against unauthorized entry.
- (3) Move all objects out of the room, if possible.
- (4) Cover all items which were not moved from the work area with one layer of disposable polyethylene sheeting. The sheeting must be taped together with duct tape, and taped to the floors or bottom of the walls or baseboards, to form a continuous barrier to the penetration of dust.
- (5) Cover the floor of the work area with one layer of six-mil disposable polyethylene sheeting, and tape the sheeting down to prevent movement. The floor sheeting must extend six (6) feet in all directions from the work area where practical, unless vertical containment is installed. Use two layers of sheeting to cover wall-to-wall carpeting, overlapping the seams by at least six (6) inches.
 - (a) If vertical containment is used, the floor covering may stop at the vertical barrier, if it is impermeable, extends from the floor to the ceiling, and is tightly sealed at all floors, ceiling, and walls.
- (6) Cover the work area entrance or vertical containment doorway with one layer of sheeting. Tape the sheeting to the top of the door frame or vertical containment high point and weigh down the bottom to create a seal. Create a door flap on the sheeting that allows access into the work area.
- (7) Close and cover all forced air systems (HVAC) in the work area with one layer of disposable polyethylene sheeting, including bathroom vents, common area vents, exhaust vents, and hall vents.
- (8) Close windows, and where applicable, cover the windows with one layer of sheeting to prevent dust and debris from settling on windowsills.
- (9) In kitchens and bathrooms, cover counter tops, cabinets, sink base cabinets, and all other horizontal surfaces with sheeting, to ensure that all doors and drawers are sealed.

(10) In kitchens:

- (a) Cover the stove with sheeting and seal. Ensure that the stove is off and cool to the touch before covering.
- (b) Cover and seal the refrigerator with sheeting. Prior to covering, cut slits in the sheeting to allow for ventilation.

Page 24 Index No. 040:18:2 Issued 12/31/2018

b. Exteriors

- (1) Work Area Perimeter
 - (a) Create a 20-foot perimeter around the work area if space allows.
 - (b) Use signs with orange cones, saw horses, warning tape, and/or ropes to mark off the work area.
 - (c) Extend the work area farther if needed; for example, when paint on the second story of a building is disturbed.
 - (d) Cover nearby vegetable gardens and children's play areas.

(2) Doors and Windows

- (a) Close all doors and windows on the same floor within 20 feet of the work area, and all windows on all floors below that are the same horizontal distance from the renovation.
- (b) If the doors and windows of apartments are less than 20 feet from the work area, consider asking the residents of those affected apartments to close the affected windows and doors. If this is not possible, erect a vertical containment wall at the property line.
- (c) Doors Used as Entrances to the Work Area

Cover any doors used as entrances to the work area or vertical containment doorway with one layer of sheeting. Tape the sheeting to the top of the door frame or vertical containment high point and weigh down the bottom to create a seal. Create a door flap on the sheeting that allows access into the work area.

(3) Ground

- (a) Cover the ground with plastic sheeting or other impermeable material
- (b) If there is enough space, extend the sheeting a minimum of 10 feet beyond the perimeter of surfaces being worked on or to a sufficient distance to contain dust, whichever is greater, unless the property line prevents 10 feet of such ground cover in which case the employee must erect a vertical containment.
 - If a vertical containment is erected closer to the work area than the minimum ground containment distance, the ground containment may stop at the edge of the vertical containment.

Page 25 Index No. 040:18:2 Issued 12/31/2018

(4) Vertical Containment

Vertical containment must be erected when work is done within 10 feet of the property line.

(5) Other Items

- (a) Cover any items that cannot be relocated out of the work area.
- (b) Tape the protective sheeting to the wall of the building or use a 2x4 wrapped in protective sheeting to hold the material next to the wall. Use heavy objects to weigh the other edges of the protective sheeting to the ground to secure.
- (c) When using ladders on plastic sheeting, place a sturdy piece of plywood on the plastic and then set the ladder on the plywood to prevent the ladder from puncturing the plastic and to provide a stable surface for the ladder. If plywood is used, take special care to secure it to the ground so that it does not move.

H. Performing Work

While performing the work, employees observe the following guidelines:

- 1. Using the spray water bottle, spray the surfaces that will be disturbed to limit the creation and dispersal of dust. Periodically rewet the area while working.
- 2. For painted surfaces, if a component is to be removed from an underlying surface, score the perimeter/edge of the component with a utility knife to minimize the quantity of painted surface that is impacted.
- 3. If power tools are used that impact lead-based paint, only those equipped with a vacuum attachment connected to a HEPA vacuum are allowed to be used.
- 4. Observe safety precautions in contained work areas:
 - a. Do not eat or drink in the work area.
 - b. Keep polyethylene sheeting away from open flames, e.g. stoves and blowtorches.
 - c. Exercise caution when spraying in the vicinity of electrical outlets.
 - d. Prevent children and pets from entering the work area.
- 5. Immediately repair torn sheeting using duct tape for minor tears. Total sheet replacement may be necessary for major tears.

Page 26 Index No. 040:18:2 Issued 12/31/2018

- 6. The following work practices are prohibited:
 - a. Open flame burning or torching of painted surfaces.
 - b. Use of machines that remove paint or other surface coatings through high-speed operation, unless they have shrouds or containment systems and are equipped with a HEPA vacuum attachment.
 - c. Operating a heat gun on painted surfaces above 1100 degrees Fahrenheit or charring the paint.
 - d. Paint stripping using a volatile stripper in poorly ventilated space.
 - e. Dry sanding or scraping, except within one (1) foot of electrical fixtures (e.g. switches, outlets, light fixtures, breaker boxes).

I. Cleaning Up

1. Work That Exceeds Eight Hours

If work is not completed at the end of an eight-hour shift, at the end of work on each day:

- a. The work area must be contained to prevent the release of leaded dust and debris into other areas and other safety, health, or environmental hazards; and
- b. The work area must be cleaned within at least 10 feet of the containment area to remove any visible dust or debris, and so other areas of the apartment or common area are accessible.

NOTE: If after the above containment and cleaning is performed tenants still do not have access to sleeping areas, bathrooms, and kitchens, employees must refer to NYCHA Standard Procedure 002:06:01, *Planned Relocation*.

- 2. After work is completed, employees clean up in the following sequence:
 - a. Worksite
 - b. Vacuuming
 - c. All horizontal surfaces except floors
 - d. Floors, including two (2) feet beyond the containment area in all directions from the work area

Page 27 Index No. 040:18:2 Issued 12/31/2018

3. Worksite

- a. Remove all containment that interferes with cleaning the work area. Any containment that does not impact cleanup must remain in place until after clearance.
 - (1) Instruct the resident to not enter the work area until containment is removed.
- Pick up all debris too large for a vacuum cleaner and place it in six-mil polyethylene bags and/or a covered cart. Avoid puncturing bags with pointed or jagged pieces of debris
- c. With a spray bottle, moisten the polyethylene sheeting and fold it inward.
- d. Place the plastic sheeting into six-mil polyethylene bags and/or a covered cart.
 - (1) Close all bags with an airtight gooseneck seal:
 - (a) Twist the bag
 - (a) Fold it over on itself
 - (b) Wrap it with duct tape
 - (c) Dispose of it with regular household waste
- e. Clean all tools.

4. Vacuuming

- a. Vacuum remaining dust and debris in the work area at a moderate speed. A HEPA vacuum is required. Never dry sweep dust or debris.
- b. First, vacuum every inch of all horizontal surfaces except floors, such as window sills, window troughs, countertops, light fixtures, cabinets, cabinet door edges, and any other horizontal surface where dust can accumulate.
- c. Then, vacuum floors starting at the far end of the room, working toward the entrance.
- d. If work was performed in kitchen, vacuum the condenser and fan area underneath the refrigerator.
- e. Avoid stepping on already vacuumed floors when moving to a new section.
- Cleaning of Horizontal Surfaces Except Floors
 - a. Use the disposable soft wipe method (preferred) or the two-bucket method.

Page 28 Index No. 040:18:2 Issued 12/31/2018

- b. Wipe all horizontal surfaces except floors, such as window sills, window troughs, countertops, light fixtures, cabinets, cabinet door edges, and any other horizontal surface where dust can accumulate.
- c. Clean all horizontal surfaces except floors until wipes are clear of dust.

6. Cleaning of Floors

- a. Use the disposable soft wipe method (preferred) or the two-bucket method.
 - (1) If using the two-bucket method, before mopping, dump the water from the clean rinse bucket used for the horizontal surfaces and refill it with clean cold water.
- b. Mop all floors starting at the far end of the room, working towards the entrance.
- c. Avoid stepping on already mopped floors when moving to a new section.
- d. If using the two-bucket method, discard dirty water in the toilet.
 - (1) For work in common areas, discard dirty water in empty five-gallon pails, put lids on them, and transport them to the nearest toilet to discard.
- e. Clean all floors until wipes are clear of dust.
- 7. Employees close the work order after completing cleaning activities.

J. Clearance

- 1. Apartments, Common Areas, and Child-Occupied Facilities
 - a. The employee who performed the RRP work fills out NYCHA Form 088.184, *Staff Renovation Recordkeeping Checklist*.
 - (1) If a vendor performed the RRP work, the vendor fills out NYCHA Form 088.181, Vendor Renovation Recordkeeping Checklist.
 - b. The dust wipe vendor performs a dust clearance examination within two (2) hours of completion of the work order.

NOTE: If a vendor performed the RRP work, a separate vendor must perform the dust clearance examination.

c. The Lead Hazard Control Department contract administrator closes the dust wipe vendor work order.

Page 29 Index No. 040:18:2 Issued 12/31/2018

- d. Dust wipe results may be available within eight (8) hours of completion of a dust clearance examination dependent on the date and time of the examination.
- e. If the dust wipe vendor does not clear the work site, or the tenant is not home, the Lead Hazard Control Department contract administrator generates a new clearance work order for staff to re-clean the work area, as outlined above in Section VIII.C., Dust Wipe Work Order. Employees then must repeat the tasks outlined above in Section VIII.I., Cleaning Up.

2. Exteriors

For exterior work, HUD requires only a visual assessment of the work area to pass clearance. No dust or soil testing is required.

- a. Visual inspection
 - (1) A vendor conducts a visual inspection after cleaning is completed.
 - (2) If dust, debris, or residue is present on surfaces in and below the work area, including window sills and the ground, these conditions must be eliminated by recleaning.
 - (3) After re-cleaning, the vendor conducts another visual inspection.
 - (4) After all areas pass inspection, warning signs may be removed.
- K. Work Disturbing More Than 100 Square Feet or Removing Two or More Painted Windows

For more information, refer to the Lead Abatement Worker Conducts Demolition flow chart above in Section VII.E.

1. Identifying Work Area

- a. When the employee verifies the work that needs to be performed as outlined above in Section VIII.A.4., they determine the total square footage of the painted area that will be disturbed in each room, and whether any work areas have two or more painted windows that will be removed.
- b. If the total area being disturbed in any room is more than 100 square feet of lead-based paint, or involves the removal of two or more painted windows, the employee confirms if a child younger than six (6) years old lives in the apartment, as identified in Maximo, or if the room is in a child-occupied facility.
- c. If a child younger than six (6) years old lives in the apartment, as identified in Maximo, or the room is in a child-occupied facility, the employee does not proceed with the work in that room.

Page 30 Index No. 040:18:2 Issued 12/31/2018

- d. The employee informs the property maintenance supervisor of the need for a lead abatement worker.
- e. The property maintenance supervisor creates a work order for lead abatement worker demolition and contacts the Lead Hazard Control Department.

NOTE: If the work order includes work in additional rooms that have less than 100 square feet of lead-based paint being disturbed, and/or areas that do not involve removing two or more painted windows, employees proceed with the RRP work in those rooms and areas.

- 2. After RRP work begins, if an employee determines the size of the area will exceed the original scope of work and now will exceed 100 square feet of lead-based paint being disturbed, or will involve the removal of two or more painted windows, the employee immediately stops work in that room and refers to Sections VIII.K.1.b.-VIII.K.1.d. directly above.
- 3. The property maintenance supervisor coordinates with the relevant trade(s) for restoration work after the lead abatement workers complete their work.
- 4. Notice of Commencement
 - a. The Lead Hazard Control Department environmental health and safety coordinator files a notice of commencement of work with the New York City Department of Mental Health and Hygiene (DOHMH) not less than 10 days prior to beginning the work. The form is found at: https://www1.nyc.gov/assets/doh/downloads/pdf/lead/lead-notificationform.pdf.
 - b. If work is required to begin in less than 10 days, the notice of commencement must be filed as soon as practicable but prior to beginning the work.
 - c. The notice must be filled out completely and submitted according to the instructions on the form.
 - (1) Fill in the 'Building Owner Information' section with the following: New York City Housing Authority, 250 Broadway, New York, NY, 10007, 212-306-3000.
 - d. A copy of the notice of commencement of work must be posted between 24 and 96 hours before work begins. It must be posted at the entrance to the building and the entrance of the specific apartment where work will take place.
 - e. Any changes to the information included in the notice of commencement of work must be filed with DOHMH prior to starting work, or if work already started, within 24 hours of any such change.

Page 31 Index No. 040:18:2 Issued 12/31/2018

IX. OUTPUTS, REPORTS, AND RECORDKEEPING

A. Outputs

- 1. Completing identified tasks within required timelines and compliance standards
- 2. Providing all required notifications to residents, including posting all required notices
- 3. Retaining all required documents in identified locations

B. Reports

Reports related to this Standard Procedure are maintained in the NYCHA Data Warehouse on NYCHA Connect. Reports are generated upon request or as needed.

C. Recordkeeping

- 1. Developments retain hard copies of all forms associated with this Standard Procedure for no less than 10 years from the completion date of work.
 - a. The vendor provides hard copies of NYCHA Form 088.181, *Vendor Renovation Recordkeeping Checklist*, to the property maintenance supervisor.
- 2. Digital forms associated with this Standard Procedure are retained in Maximo.

X. TRAINING REQUIREMENTS

- A. The Human Resources Department Learning and Development-Registration Unit:
 - 1. Serves as a liaison for obtaining training.
 - 2. Tracks training certifications.
 - 3. Schedules new employees for training.
- B. All new employees who this Standard Procedure applies to are required to:
 - 1. Attend Renovation, Repair, and Painting training.
 - 2. Receive their certification by achieving a successful result on the exam administered at the end of the training. The training certification is valid for five (5) years.

XI. PERFORMANCE METRICS

- A. Pass/fail rate of dust wipes
- B. Average number of days to close a dust wipe work order
- C. Percentage of dust wipe work orders closed within established timelines
- D. Percentage of work orders delayed caused by a lack of RRP materials
- E. Percentage of RRP compliance observations in complete adherence to the RRP rule

XII. NON-COMPLIANCE

- A. NYCHA staff performing or overseeing RRP work are required to comply with this Standard Procedure and any federal, state, or city regulations pertaining to the work described in it.
- B. Departments are required to take corrective action to bring NYCHA into compliance.

XIII. FORMS

The following forms and signs are located on the Forms and Reference Library.

- A. NYCHA Form 060.632, The Lead-Safe Certified Guide to Renovate Right
- B. NYCHA Form TR060632_02, The Lead-Safe Certified Guide to Renovate Right Spanish Translation
- C. NYCHA Form 060.632A, Pre-Renovation Form
- D. NYCHA Form 088.181, Vendor Renovation Recordkeeping Checklist
- E. NYCHA Form 088.182, Renovation, Repair, and Painting Safety Sign
- F. NYCHA Form TR088.182_02, Renovation, Repair, and Painting Safety Sign, Spanish Translation
- G. NYCHA Form TR088.182_03, Renovation, Repair, and Painting Safety Sign, Russian Translation
- H. NYCHA Form TR088.182_04, Renovation, Repair, and Painting Safety Sign, Chinese translation
- I. NYCHA Form 088.183, Resident Renovation Notification Common Area
- J. NYCHA Form 088.184, Staff Renovation Recordkeeping Checklist

Page 33 Index No. 040:18:2 Issued 12/31/2018

XIV. REVIEW/REVISION HISTORY PAGE

LEAD SAFETY FOR RENOVATION, REPAIR, AND PAINTING

040:18:2

Review/ Revision	Review/ Revision Date	Sections Amended
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

XV. APPENDICES

A. Lead Safe Practices Vendor Notice

Appendix appears on following page.



Lead Safe Practices Vendor Notice

Dear Vendor:

Please be advised that your firm and your staff are required to comply with Lead Safe Work practice requirements as part of general maintenance and repair in accordance with NYC Local Law 1 and/or HUD requirements and must be RRP certified.

If vendor employees enter the apartment and determine that the amount of painted surface being disturbed is greater than 2 square feet or 10% of the component, vendor employees are required to follow Lead Safe Practices and:

- Provide a paper copy of the <u>EPA Renovate Right Brochure</u> to the resident before commencing work.
- Collect the completed Occupant Confirmation form (found in the brochure) from the resident.
- Indicate the work order # on the Occupant Confirmation form.
- Immediately inform the Property Maintenance Supervisor or Assistant Property Maintenance Supervisor of the need for clearance dust wipes.
- Return the Occupant Confirmation form to the Property Maintenance Supervisor.

Please be advised that your staff can obtain copies of the Renovate Right Brochure from the Development Office.

В.	RRP Supplemental Workflow
	Appendix begins on following page.

Row #	Step#	Action Description	YES	Go to Process	NO	Go to Process
ROCESS	1:Maintenar	nce Worker Verifies Complaint				
1	1.1	Maintenance Worker goes to Resident's apartment on Scheduled Date and Time				
2	1.2	Is Resident Home?	YES	Go to Step 1.3	NO	Go to Process 3
3	1.3	Maintenance Worker Verifies Complaint				
4	1.4	Can Maintenance Worker complete repairs?	YES		NO	Go to Step 1.9 & 1.10
5	1.5	Is 2 sq. ft. or more of RRP Work Required?	YES	Go to Step 1.7	NO	Go to Step 1.11
6	1.6	Is RRP Equipment available?	YES		NO	Go to Step 1.12 & 1.13
7	1.7	Maintenance Worker informs Development Supervisor and requests any additional RRP Equipment required for repairs to be brought to apartment, if needed. (HEPA Vac, resporator, additional sheathing, duct and painters tape etc.)				
8	1.8	Development Supervisor generates the Dust Wipe WO with Estimated Completion Date and Time of RRP Work				
9	1.9	Maintenance Worker generates Child WO for Skilled Trades Needed				
11	1.10	Planning Unit schedules Skilled Trades Child WO		Go to Process 4		
12	1.11	Maintenance Worker follows normal repair process and closes Parent WO. Note: Maintenance staff must notify Development supervisor of any changes in estimated completion times as soon as they become aware of change				
13	1.12	Development Supervisor reschedules Maintenance WO when RRP materials are obtained		End		
14	1.13	Was Equipment obtained?				
15	1.14	Maintenance Worker issues the Renovate Right Pamphlet to Resident Note: Staff may request different language pamphlet.	YES	Go to Step 1.15	NO	Return to Step 1.13
16	1.15	Resident signs Pre-Renovation Form?				
17	1.16	Maintenance Worker retains the Pre-Renovation Form	YES	Go to Step 1.17	NO	Go to Step 1.22
18	1.17	Maintenance Worker attaches Pre-Renovation Form to Parent WO via Unified Change Management (UCM) in Maximo Note: If Maintenance Worker does not have handheld device, Development Supervisor must perform this step.				
19	1.18	Maintenance Worker starts containment process set-up and completes repairs				
20	1.19	Maintenance Worker completes the RRP Cleaning Verification Work and Renovation Recordkeeping Checklist				
21	1.20	Maintenance Worker informs Resident that Vendor will return within 2 hours to conduct Dust Wipe				
22	1.21	Maintenance Worker closes Parent WO		Go to Process 3		
23	1.22	Maintenance Worker completes the Renovator's Self Certification Option		Return to Step 1.17		

Row #	Step #	Action Description	YES	Go to Process	NO	Go to Process
ROCESS	2:Tenant No	ot Home				
29	2.1	Is this a Maintenance WO?	YES	Go to Step 2.2	NO	Go to Step 2.9
30	2.2	Maintenance Worker contacts Resident via handheld				
31	2.3	Was Contact successful?	YES	Return to Step 1.3	NO	Go to Step 2.4
32	2.4	Was appointment initiated by resident?	YES	Go to Step 2.5	NO	Go to Step 2.8
33	2.5	Maintenance Worker marks WO Tenant Not At Home and places a Notice of Visit by NYCHA Staff (NYCHA Form# 040.534A) under the door				
34	2.6	Maintenance Worker informs Development Supervisor the Resident was not home				
35	2.7	Development Supervisor contacts Resident and reschedules Maintenance WO, if applicable				
36	2.8	Maintenance Worker marks WO Tenant Not At Home and places a Notice of Visit by NYCHA Staff – Apartment Inspection (NYCHA Form# 040.534) under the door				
37	2.9	Is this a Skilled Trades WO?	YES	Go to Step 2.10	NO	End of Process
38	2.10	Skilled Trades Worker contacts Resident via handheld				
39	2.11	Was Contact successful?	YES	Return to Step 4.3	NO	Go to Step 2.12
40	2.12	Was appointment initiated by resident?	YES	Go to Step 2.13	NO	Go to Step 2.16
41	2.13	Skilled Trades Worker marks WO Tenant Not At Home and places a Notice of Visit by NYCHA Staff (NYCHA Form# 040.534A) under the door				
42	2.14	Skilled Trades Worker informs Development Supervisor the Resident was not home				
43	2.15	Development Supervisor contacts Resident and reschedules Skilled Trades Child WO, if applicable				
44	2.16	Skilled Trades Worker marks WO Tenant Not At Home and places a Notice of Visit by NYCHA Staff – Apartment Inspection (NYCHA Form# 040.534) under the door		Return to Step 2.14		

Row #	Step #	Action Description	YES	Go to Process	NO	Go to Process
ROCESS 3	3: Vendor C	onducts Dust Clearance Examination				
51	3.1	Lead Hazard Control Unit (LHCU) Contract Administrator schedules Dust Wipe WO for Vendor				
52	3.2	Vendor goes to Resident's apartment on Scheduled Date and Time				
53	3.3	Is Resident home?	YES	Go to Step 3.4	NO	Go to Step 3.13
54	3.4	Vendor completes Visual Assessment & Dust Clearance Examination (Dust Wipe)				
55	3.5	LHCU Contract Administrator attaches Dust Wipe Report to the Dust Wipe WO in Maximo via UCM				
56	3.6	LHCU Contract Administrator completes and closes the Dust Wipe WO				
57	3.7	Dust Wipe Passed Note: Dust Clearance results may be available within 8 hours dependent on date and time of collection.	YES	End of Process	NO	Go to Step 3.8
58	3.8	Maximo auto-generates Cleaning Verification WO for Maintenance Worker				
59	3.9	Development Supervisor reschedules the Cleaning Verification WO with Estimated Completion Date and Time				
60	3.10	Maximo auto-generates Dust Wipe WO				
61	3.11	LHCU Contract Administrator re-schedules Dust Wipe WO and enters Target Start Date for Vendor				
62	3.12	Maintenance Worker completes RRP Cleaning Verification Work and Renovation Recordkeeping Checklist		Return to Step 3.12		
63	3.13	Vendor informs Development Supervisor Resident is not home				
64	3.14	Development Supervisor contacts Resident				
65	3.15	Was contact successful?				
66	3.16	Is Resident home?	YES	Go to Step 3.17	NO	Go to Step 3.18
67	3.17	Development Supervisor informs Vendor Resident was home and Vendor returns to apartment		Return to Step 3.4		
68	3.18	Development Supervisor informs LHCU Contract Administrator				
69	3.19	Development Supervisor reschedules the Cleaning Verification WO with Estimated Completion Date and Time		Return to Step 3.12		
70	3.20	LHCU Contract Administrator re-schedules Dust Wipe WO for Vendor		Return to Step 4.2		

Row #	Step #	Action Description	YES	Go to Process	NO	Go to Process
		ades Verifies Complaint				
76	4.1	Skilled Trades goes to Resident's apartment on Scheduled Date and Time				
77	4.2	Is Resident Home?	YES	Go to Step 4.3	NO	Return to Process 3
78	4.3	Skilled Trades assesses repairs				
79	4.4	Can Skilled Trades Complete repairs?	YES		NO	Go to Step 4.11 & 4.12
80	4.5	Is 2 sq. ft. or more of RRP Work Required?	YES	Co to Ston 4.0	NO	Go to Step 4.13
81	4.6	Is amount of RRP square footage greater than 100sq. ft?	YES	Go to Step 4.8	NO	Go to Step 4.17
82	4.7	Does the WO indicate a child under 6 resides in apt?	YES		NO	Go to Step 4.14
83	4.8	Skilled Trades informs the Resident a Lead Abatement Worker is required to perform demolition and requests a Date and Time from Resident				
84	4.9	Skilled Trades sequences Child WO to the Lead Abatement Worker				
85	4.10	Skilled Trades informs Development Supervisor a Lead Abatement Worker is required to conduct demolition				
86	4.11	Skilled Trades generates Child WO for Skilled Trades Needed				
87	4.12	Planning Unit schedules Skilled Trades Child WO		Return to Step 4.1		
88	4.13	Skilled Trades follows normal repairs and closes Child WO. Note: Skilled Trades staff must notify Development supervisor of any changes in estimated completion times as soon as they become aware of change				
89	4.14	Is RRP Equipment available?	YES	Go to Step 4.17	NO	Go to Step 4.15
90	4.15	Planning Unit reschedules Skilled Trades Child WO when RRP materials are obtained				
91	4.16	Was Equipment obtained?	YES	Return to Step 4.18	NO	Return to Step 4.18
92	4.17	Skilled Trades informs Development Supervisor and requests RRP Equipment required for repairs, if needed				
93	4.18	Development Supervisor generates the Dust Wipe WO with Estimated Completion Date and Time of RRP Work				
94	4.19	Skilled Trades returns to Resident's apartment and issues the Renovate Right Pamphlet Note: Staff may request different language pamphlet.				
95	4.20	Resident signs Pre-Renovation Form?				
96	4.21	Skilled Trades retains the Pre-Renovation Form				
97	4.22	Skilled Trades attaches photo of Pre-Renovation Form to Child WO via UCM in Hand Held Device Note: If Skilled Trades does not have handheld device, Development Supervisor must perform this step via UCM in Maximo.				
98	4.23	Skilled Trades starts containment process set-up				
99	4.24	Skilled Trades conducts repairs				
100	4.25	Does the repairs escalate to greater than 100sq ft?	YES	Return to Step 4.10	NO	Go to Step 4.26
101	4.26	Skilled Trades completes the RRP Cleaning Verification Work and Renovation Recordkeeping Checklist			<u>-</u>	·
102	4.27	Skilled Trades informs Resident that Vendor will return within 2 hours to conduct Dust Wipe				
103	4.28	Skilled Trades closes		Return to Process 3		

Row #	Step#	Action Description	YES	Go to Process	NO	Go to Process	
PROCESS	ROCESS 5: Lead Abatement Worker Conducts Demolition						
105	5.1	Development Supervisor informs Lead Hazard Control Unit (LHCU) that a Lead Abatement Worker is needed					
106	5.2	LHCU Contract Administrator contacts Resident and confirms Scheduled Date and Time					
107	5.3	LHCU Contract Administrator schedules and assigns Lead Abatement Worker WO					
108	5.4	Lead Abatement Worker goes to Resident's apartment to conduct demolition					
109	5.5	Lead Abatement Worker completes demolition and informs LHCU					
110	5.6	LHCU Contract Administrator informs Development Supervisor and Planning Unit the demolition is completed		Return to Process 4			

MOLD RESIDENT DOCUMENTS

Controlling Mold in Your Apartment

What Is Mold?

The New York City Department of Health and Mental Hygiene (DOHMH) defines mold as a fungus that grows in damp areas like bathrooms and kitchens. Mold comes in various colors and textures and produces a musty, stale, or earthy odor. Mold can cause allergic reactions or other health problems in some people and can trigger asthma attacks.

How to Clean Mold Safely in Your Home:

According to DOHMH, mold should be cleaned/remediated by trained building maintenance staff. Mold on bathroom tile grout (around bathtubs) is common. Residents can control this growth with thorough and frequent use of household cleaners. Residents can also clean minor discoloration (gold or light-brown spots) that forms on bathroom walls/ceilings after showering to help prevent mold growth.

- However, residents with asthma or mold allergies should not conduct this work.
- The use of bleach can be hazardous and should be used **only** in diluted solutions (1 part bleach to 10 parts water).

Tips for Preventing Mold:

Mold growth is **always** the result of excessive moisture, which can occur from:

- 1) Rainwater leaking through roofs or entering through building walls.
- 2) Plumbing leaks (either from within the apartment or from above).
- 3) Condensation (drops of water) that forms on surfaces when warm, moist (humid) air comes into contact with cooler surfaces.
- 4) Lack of adequate ventilation (air flow).

Rainwater, plumbing leaks, and broken rooftop fans are not within residents' control. These problems require repair by trained staff. However, **condensation (drops of water and steam) is a common cause** of excessive moisture that promotes mold, especially in bathrooms.

Here's what you can do to limit excessive moisture and the potential for mold in your bathroom:

- **Exhaust ventilation** is the key to controlling high humidity in bathrooms. Make sure your bathroom exhaust works by holding a piece of tissue to the bathroom exhaust grill to ensure there is suction (the tissue should stick to grill). If there is no suction, call the Customer Contact Center.
- If your bathroom exhaust vent grill is clogged with dust, report the issue by calling the Customer Contact Center.
- Don't use shower racks/clothes lines above bathtubs.
- Open bathroom windows and doors after showering.
- In the summertime, use an air conditioner.
- Open windows slightly when the weather allows.
- Request repairs for leaky plumbing or other water leaks as soon as possible.

If you have mold growth, excessive moisture, or a plumbing or rainwater leak, please call the Customer Contact Center at 718-707-7771 to report the issue.

NEW YORK CITY HOUSING AUTHORITY Public Housing Department

<<DEVELOPMENT NAME>>

	Work Order #:
	Date:
Mold Inspection Receipt	
□ NYCHA has not found mold, water damage, and/or a moist moisture and/or a possible leak and is closing your work orde	3
□ NYCHA has found mold, water damage, and/or a moisture and/or a possible leak. NYCHA will send you the Mold Inspection.	_
NYCHA is committed to completing all mold and excessive mo	•

for simple repairs and 15 days for complex repairs, starting from the date that the initial complaint is reported to the Customer Contact Center. If resident access is not provided for the scheduled follow-up appointments, NYCHA may use its right to access a tenant's apartment, immediately after providing 48 hours' notice, as indicated in the NYCHA Resident Lease Agreement.

A final Quality Assurance re-inspection will be conducted by NYCHA staff 30 to 45 days after the necessary work orders are completed to ensure that the mold and excessive moisture remediation work was done correctly and effectively.

A translation of this document is available in your management office.
La traducción de este documento está disponible en
la Oficina de Administración de su residencial.
所居公房管理處備有文件譯本可供索取。
Перевод этого документа находится в Вашем домоуправлении.

NEW YORK CITY HOUSING AUTHORITY Public Housing Department

<<DEVELOPMENT NAME>>

Notice – Mold Inspection Review

<<DATE>>

< <name>></name>		
< <address< td=""><td>LINE</td><td>1>></td></address<>	LINE	1>>
< <address< td=""><td>LINE</td><td>2>></td></address<>	LINE	2>>

On <<**INSPECTION DATE>>** NYCHA conducted the initial inspection for Work Order # <<**NUMBER>>.** NYCHA has found mold, water damage, and/or a moisture level indicating excessive moisture and/or a possible leak.

The probable root cause is: <<insert probable root cause>>

Based on this root cause and the remediation method selected, follow-up work orders have been automatically generated. Below is a summary of the work that is needed to correct this root cause and remediate the mold or moisture condition:

Work Order #	Failure Class	Problem Code	Craft	Estimated Scheduled Date

If you do not have a scheduled date listed above, NYCHA will contact you to schedule appointments needed to complete the repairs or to discuss next steps if capital repairs are needed to remediate mold or moisture in your unit.

NYCHA is committed to completing all mold and excessive moisture work orders within 7 days for simple repairs and 15 days for complex repairs, starting from the date that the initial complaint is reported to the Customer Contact Center. If resident access is not provided for the scheduled follow-up appointments, NYCHA may use its right to access a tenant's apartment, immediately after providing 48 hours' notice, as indicated in the NYCHA Resident Lease Agreement.

A final Quality Assurance re-inspection will be conducted by NYCHA staff 30 to 45 days after the necessary work orders are completed to ensure that the mold and excessive moisture remediation work was done correctly and effectively.

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所居公房管理處備有文件譯本可供索取。
Перевод этого документа находится в Вашем домоуправлении.

CARETAKE X MEMO

From: Operations

To: All Neighborhood Administrators, All Property managers, All Property Maintenance Supervisors (PMS), All Assistant Property Maintenance Supervisors (APMS), All Supervisors of Caretakers, All Caretakers X

CC: Office of the General Manager, Environmental Health & Safety (EH&S), Compliance Department, Office of Quality Assurance, Learning & Development (L&D), Human Resource Department, Materials Management Office, Operations VPs, Borough Skilled Trades Deputies and Administrators, Borough Supervisor of Painters

New York City Housing Authority

Guidance: Responsibility of Caretaker X Staff to Remove up to 20 Square Feet of Mold

June 29, 2021

Operations Partners,

NYCHA is expanding the square footage to which Caretaker X staff may be assigned to remove mold at selected developments. This change is being implemented to improve response times to mold cases under 20 square feet. The following guidance outlines this change and staff responsibilities. This change will go in effect on June 30th, 2021.

Part I: Project Overview

Currently, Caretakers X are not assigned to remove mold over 10 square feet. Anything larger is typically assigned to a painter. On June 30th 2021, NYCHA will increase the square footage on the total amount of mold that Caretaker X staff may be assigned to remove. Following this policy change, mold conditions up to 20 square feet may be assigned at certain sites to a Caretaker X to remove. The goal of this policy revision is to allow more work to be performed by trained development-based staff and thereby decrease the amount of time it takes to remove mold from NYCHA apartments.

As a reminder, mold removal may require the disturbance of painted surfaces, to include those with presumed/verified lead-based paint. As such, only Caretaker Xs who have received RRP training and hold a valid Certified Renovator credential may perform this work whenever the size of the work area exceeds 2 square feet. Supervisors assigning the work must ensure 1) work is assigned to trained and qualified staff, and 2) RRP protocols are being followed.

During Phase I of the roll-out, the change will impact developments that are not presumed to be positive for lead-based paint. (Please see Table 1 (Part VII) of this memo for the list of locations that are in Phase I). Locations that are presumed to be lead positive, and are not on the attached list, will continue to assign Caretaker Xs to remove mold up to 10 square feet.

During Phase II, the change will be applicable to all developments.

Beginning on June 30th, 2021, Phase I developments that are on the list below will be able to assign larger mold cleaning tasks to Caretaker X staff. As part of this enhancement, Maximo will automatically assign mold removal work orders to the craft of Caretaker X with the owner group set to the development where the work order is located. Development Supervisors must then assign a Caretaker X who completed Mold Busters training to the remediation work. Provided work is done on paper work orders, the Supervisors must coordinate for the work orders to be closed.

Wherever possible, OMAR is recommending that mold inspectors bring a Caretaker X to the inspection. Upon verification of a mold condition up to 20 square feet in size, inspectors could assign the Caretaker X to immediately begin removing the mold. This proactive approach will allow staff to clean most mold conditions as soon as they are discovered. If it is not possible to bring a Caretaker X to the inspection, OMAR recommends that staff sequence mold cleaning work for a same day response.

It is our hope that this policy change will help NYCHA address mold conditions throughout the authority by using our existing resources more efficiently.

Part II: Training Requirements

Any Caretaker X who has completed the one-day Mold Busters Remediation Methods Training conducted by EEA will be able to remove up to 20 square feet of mold. Caretaker X's should receive RRP training if they have not already been certified. Note: development Supervisors must not assign Caretaker X's to complete these assignments without these required trainings.

Part III. Responsibilities

Caretaker X:

- Remove up to 20 square feet of mold with OMAR and NYCHA approved detergent. Staff will work in accordance with the remediation methods outlined in the SP 040:14:1 Mold/ Mildew Control in NYCHA Residential Buildings.
- Remove/clean mold in unit as soon as possible but no later than within seven (7) days after the initial condition is detected and reported.
- Setting up and removal of containment in situations that require containment i.e. existing dust control procedure for areas covered asbestos, lead, mold and other health hazards.
- Clean walkways and work areas with a damp cloth or mop and a detergent solution. For jobs larger than 10 square feet, all surfaces in the work area must be HEPA vacuumed and then cleaned with a damp cloth or mop and a detergent solution. All areas must be visibly clean prior to the removal of containment.

Development Supervisors (Property Maintenance Supervisor, Assistant Property Maintenance Supervisor, Supervisor of Caretakers):

- Assign Caretakers X who completed the required training to remove up to 20 sq feet of mold.
- Ensure that assigned Caretakers X visit apartments for mold removal work orders as scheduled and perform the work.
- Ensure Caretakers X are using NYCHA and OMAR approved cleaning supplies, tools, and personal protective equipment (PPE).
- Ensure that Caretakers X visit apartments for all mold cleaning appointments as scheduled.
- Ensure RRP guidelines are followed.

Part IV: Tools and Supplies

As this policy goes in effect, the property maintenance supervisor and assistant property maintenance supervisor should ensure that their developments have enough tools and supplies to accommodate the expected growth in mold removal work. Please check your development's stock of cleaning supplies and solutions in the storage room and restock, if needed.

As outlined in the SP 040:14:1 *Mold/ Mildew Control in NYCHA Residential Buildings*, NYCHA's staff should use the following NYCHA and OMAR approved supplies when cleaning mold:

- ShockWave Detergent (HA# 080657583)
- Biowash Detergent (HA# 0806938344)
- Foster First Defense 4080 Disinfectant (HA# 0806962366)
- Zinsser JOMAX House Cleaner and Mildew Killer (HA# 0806962365)

Please note that the Safety Data Sheets (SDS) for each of these chemicals are available in the Property Maintenance office and all staff should review these prior to usage. All chemicals should be applied following the guidelines contained within each SDS. If staff have any questions on these chemicals, please contact the Environmental Health and Safety Department at ehs@nycha.nyc.gov.

Part V: Personal Protective Equipment (PPE)

As outlined in the SP 040:14:1 *Mold/ Mildew Control in NYCHA Residential Buildings*, NYCHA recommends staff use Personal Protective Equipment when addressing mold conditions. Any employee who wishes to use Personal Protective Equipment will have the option to use the following items for any mold job that is less than 100 square feet:

- N95 disposable respirators, or approved equivalent.
- Disposable protective clothing.
- Gloves.
- Eye protection.

Part VI: Oversight

The Compliance Department, EHS, and OMAR will continue to monitor key performance indicators and trends to ensure that mold removal work is done in accordance with the timeframes and protocols outlined in the SP 040:14:1 *Mold/ Mildew Control in NYCHA Residential Buildings* and analyze and investigate any potential deviations.

Part VII: List of Developments Included in the Project

Development	TDS
1010 EAST 178TH STREET	180
104-14 TAPSCOTT STREET	242
1162-1176 WASHINGTON AVENUE	233
1471 WATSON AVENUE	214
303 VERNON AVENUE	156
45 ALLEN STREET	265
ADAMS	118
AMSTERDAM ADDITION	187
ATLANTIC TERMINAL SITE 4B	256
AUDUBON	125
BAILEY AVENUE-WEST 193RD STREET	202
BAISLEY PARK	91
BARUCH HOUSES ADDITION	198
BAY VIEW	92
BEACH 41ST STREET	165
BEDFORD-STUYVESANT REHAB	311
BELMONT-SUTTER AREA	345
BERRY	52
BETHUNE GARDENS	160
BORINQUEN PLAZA I	243
BORINQUEN PLAZA II	271
BOSTON ROAD PLAZA	189
BOSTON SECOR	138
BOULEVARD	46
BOYNTON AVENUE REHAB	346
BRACETTI PLAZA	264
BRONX RIVER ADDITION	157
BROWN	325
BROWNSVILLE	16
BUSHWICK	86
BUTLER	113
CAMPOS PLAZA II	286
CAREY GARDENS	166
CARLETON MANOR	164
CARVER	58
CASSIDY-LAFAYETTE	206
CHELSEA	134
CHELSEA ADDITION	176
CLAREMONT PARKWAY-FRANKLIN AVENUE	334
CLAREMONT REHAB (GROUP 2)	307

CLAREMONT REHAB (GROUP 3) 308 CLAREMONT REHAB (GROUP 5) 336 CLINTON 123 COLLEGE AVENUE-EAST 165TH STREET 236 CONEY ISLAND 94 CONEY ISLAND I (SITE 1B) 239 CONEY ISLAND I (SITE 8) 238 CONEY ISLAND I (SITES 4 & 5) 216 CONLON LIHFE TOWERS 232 CORSI HOUSES 199 CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190 DE HOSTOS APARTMENTS 155
CLINTON 123 COLLEGE AVENUE-EAST 165TH STREET 236 CONEY ISLAND 94 CONEY ISLAND I (SITE 1B) 239 CONEY ISLAND I (SITE 8) 238 CONEY ISLAND I (SITES 4 & 5) 216 CONLON LIHFE TOWERS 232 CORSI HOUSES 199 CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190
COLLEGE AVENUE-EAST 165TH STREET 236 CONEY ISLAND 94 CONEY ISLAND I (SITE 1B) 239 CONEY ISLAND I (SITE 8) 238 CONEY ISLAND I (SITES 4 & 5) 216 CONLON LIHFE TOWERS 232 CORSI HOUSES 199 CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190
CONEY ISLAND 94 CONEY ISLAND I (SITE 1B) 239 CONEY ISLAND I (SITE 8) 238 CONEY ISLAND I (SITES 4 & 5) 216 CONLON LIHFE TOWERS 232 CORSI HOUSES 199 CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190
CONEY ISLAND I (SITE 1B) 239 CONEY ISLAND I (SITE 8) 238 CONEY ISLAND I (SITES 4 & 5) 216 CONLON LIHFE TOWERS 232 CORSI HOUSES 199 CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190
CONEY ISLAND I (SITE 8) CONEY ISLAND I (SITES 4 & 5) CONLON LIHFE TOWERS CORSI HOUSES CROWN HEIGHTS 312 CYPRESS HILLS TO DAVIDSON 238 238 216 216 232 232 232 232 240 250 270 270 270 270 270 270 27
CONEY ISLAND I (SITES 4 & 5) CONLON LIHFE TOWERS CORSI HOUSES 199 CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190
CONLON LIHFE TOWERS CORSI HOUSES 199 CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190
CORSI HOUSES 199 CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190
CROWN HEIGHTS 312 CYPRESS HILLS 70 DAVIDSON 190
CYPRESS HILLS 70 DAVIDSON 190
DAVIDSON 190
DE HOSTOS APARTMENTS 155
DOUGLASS ADDITION 148
DOUGLASS I 82
DOUGLASS II 582
DREW-HAMILTON 111
EAGLE AVENUE-EAST 163RD STREET 224
EAST 152ND STREET-COURTLANDT AVENUE 237
EAST 180TH STREET-MONTEREY AVENUE 208
EAST NEW YORK CITY LINE 263
EDENWALD 57
FARRAGUT 29
FENIMORE-LEFFERTS 205
FIORENTINO PLAZA 207
FOREST 59
FORT INDEPENDENCE STREET-HEATH AVENUE 197
FULTON 136
GARVEY (GROUP A) 252
GLEBE AVENUE-WESTCHESTER AVENUE 225
GOMPERS 100
GOWANUS 25
HABER 142
HARBORVIEW TERRACE 262
HERNANDEZ 184
HOLMES TOWERS 159
HOWARD 72
HOWARD AVENUE 339
HOWARD AVENUE-PARK PLACE 365
HUGHES APARTMENTS 168
HYLAN 109

Development	TDS
INGERSOLL	14
INTERNATIONAL TOWER	316
ISAACS	139
JACKSON	120
JEFFERSON	64
KING TOWERS	30
KINGSBOROUGH EXTENSION	161
LA GUARDIA	76
LA GUARDIA ADDITION	152
LAFAYETTE	122
LATIMER GARDENS	186
LEAVITT STREET-34TH AVENUE	201
LEHMAN	101
LENOX ROAD-ROCKAWAY PARKWAY	348
LINDEN	95
LOW HOUSES	169
LOWER EAST SIDE I INFILL	326
LOWER EAST SIDE II	337
LOWER EAST SIDE REHAB (GROUP 5)	292
MARCY	21
MARSHALL PLAZA	344
MCKINLEY	103
MELROSE	28
MELTZER TOWER	183
METRO NORTH PLAZA	181
MIDDLETOWN PLAZA	191
MOORE	129
MORRIS I	102
MORRIS II	502
MORRIS PARK SENIOR CITIZENS HOME	277
MORRISANIA	130
MORRISANIA AIR RIGHTS	267
MOTT HAVEN	121
NEW LANE AREA	314
OCEAN BAY APARTMENTS (OCEANSIDE)	51
OCEAN HILL APARTMENTS	162
OCEAN HILL-BROWNSVILLE	313
O'DWYER GARDENS	172
PARK ROCK REHAB	351
PATTERSON	
PENNSYLVANIA AVENUE-WORTMAN AVENUE	24 194
	1 9/1

Development	TDS
QUEENSBRIDGE SOUTH	5
RALPH AVENUE REHAB	352
RANDALL AVENUE-BALCOM AVENUE	245
REDFERN	55
REHAB PROGRAM (COLLEGE POINT)	143
REHAB PROGRAM (WISE REHAB)	517
REID APARTMENTS	167
ROBBINS PLAZA	218
ROBINSON	241
ROOSEVELT I	135
ROOSEVELT II	177
RUTGERS	99
RUTLAND TOWERS	282
SACK WERN	280
SAINT MARY'S PARK	93
SAMUEL (CITY)	377
SARATOGA VILLAGE	158
SHEEPSHEAD BAY	36
SHELTON HOUSE	279
SOTOMAYOR	67
SOUTH BRONX AREA (SITE 402)	305
SOUTH JAMAICA I	8
STEBBINS AVENUE-HEWITT PLACE	353
STERLING PLACE REHABS (SAINT JOHNS-STERLING)	366
STERLING PLACE REHABS (STERLING-BUFFALO)	368
STUYVESANT GARDENS I	221
STUYVESANT GARDENS II	333
SUTTER AVENUE-UNION STREET	369
TAFT	97
TAPSCOTT STREET REHAB	354
TAYLOR STREET-WYTHE AVENUE	234
TELLER AVENUE-EAST 166TH STREET	223
THOMAS APARTMENTS	268
THROGGS NECK ADDITION	193
TILDEN	96
TOMPKINS	131
TWIN PARKS EAST (SITE 9)	287
TWO BRIDGES URA (SITE 7)	266
UNION AVENUE-EAST 163RD STREET	342
UNION AVENUE-EAST 166TH STREET	356
UNITY PLAZA (SITES 17,24,25A)	240
, , ,	

Development	TDS
UPACA (SITE 6)	355
VAN DYKE II	146
VANDALIA AVENUE	315
VLADECK	6
VLADECK II	7
WAGNER	74
WASHINGTON	62
WEST BRIGHTON I	116
WEST BRIGHTON II	175
WEST TREMONT AVENUE-SEDGWICK AVENUE	246
WHITE	124
WHITMAN	514
WOODSON	182
WSUR (BROWNSTONES)	178
WSUR (SITE B) 74 WEST 92ND STREET	173
WSUR (SITE C) 589 AMSTERDAM AVENUE	174
WYCKOFF GARDENS	163

INFORMER WORK MANAGEMENT (IWM) TRAINING COURSE FOR MOLD INSPECTION

dandheld informer Work Management Training – Mold Inspection

OUR VISION FOR NEXT GENERAL MECHA

iWM Mobile Application Training - Agenda

X N

IWM



Training Course for Mold Inspection

Today's Instructor:







9. Conclusion: FAQs, Pet Policy, Kit Overview, Class Evaluation Form

7. Demonstration: End to End Re-Inspection Work Flow

8. Mold Inspection Work Order Exercises

6. Follow Along: End to End QA Inspection Work Flow



MOLD/MILDEW WO Workflow - (Continued)

Mold is Found ... Doing the Work (Part 1)...















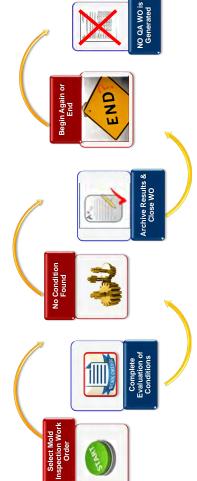




Page 1

MOLD/MILDEW WO Workflow

NO Mold was Found...



Doing the work...

Mold is Found ... Doing the Work (Part 2)...







Work Order Workflow

Ending the work...









iWM Mobile Application Training - Agenda







8. Mold Inspection Work Order Exercises

9. Conclusion: FAQs, Pet Policy, Kit Overview, Class Evaluation Form

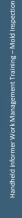














pg. 153

Rev. 4-26-22

The WO List screen shows a detailed summary about

each WO.

Priority

NYCHA Locations Explained

Examples of NYCHA Locations:



Rooms (bedroom, bathroom, etc.)

Heating Plumbing Line

Stair Halls Buildings

Floors

Elevators

Grounds

Community Centers

Apartments

Bathroom 01← CM/MOLD

08,01,003,F02,02D,BTH01

Problem Code

(H

Reported By Date Location String

Owner Group

WO Type

Craft

06-36 159TH STREET

4

Room/Location

Failure Class

▼ MUQWUUT — V Environmental Education Associates, Inc.

NYCHA Mold Inspection Student Handouts

OHET

SOUTH JAMAICA I

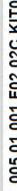
Unassigned

Development

WO Number

Address

WATERRUNNING Unscheduled 58955838



Development #/ Building / Stair Hall / Floor / Apartment / Room F02.

02C.

005.01.001.F02.02C.KIT01



Handheld informer Work Management Training – Mold Inspectior

Page 9

Page 10





Samsung Galaxy S8 Buttons

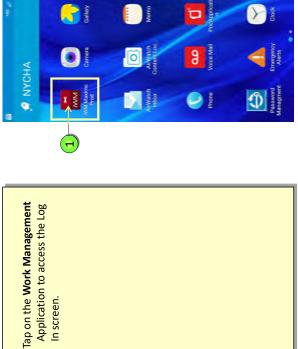
Power/Lock Screen -Notification Bar -Back Home Recent Apps-Volume Keys

pg. 154 Rev. 4-26-22

Launch the iWM Application

In screen.

(1)



ij



Handheld informer Work Management Training – Mold Inspection

Page 11

December 2018









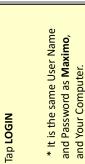


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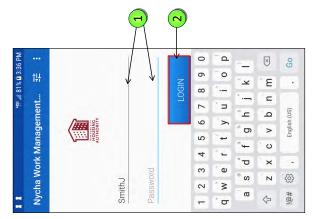
Log In To iWM Application



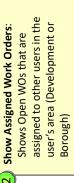
F



NOTE: Make sure you are in an area that has good cell service.

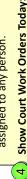


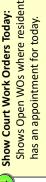
open WOs assigned to the user **Show My Work Orders**: Shows who is logged-in.





m





Shows all automatically generated WOs as a result of the completed **Show Reinspection Work Orders:** QA Mold Inspection. 2



How to View Work Orders - Sorting

₩ 100% 11:31 AM

2 1 X X

Handheld informer Work Management Training – Mold Inspectior

Handheld informer Work Management Training – Mold Inspection

Page 13

Viewing Work Orders - Types

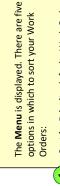
Work Orders can be filtered and sorted by Work Order type, there is no default.

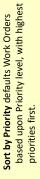
Show All Work Types displays all open

(H)

Work Orders for the Development.

Page 14

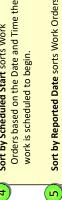




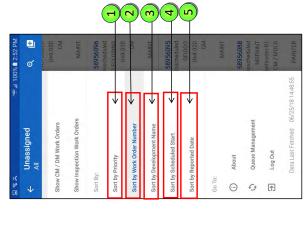




Sort By Development Name sorts the



Sort by Reported Date sorts Work Orders based on the Dates the complaint was made.





Show CM / DM Work Orders displays all

(7)

Corrective Maintenance and Deferred

Maintenance Work Orders.

Show Inspection Work Orders displays

(E)

all the Inspection Work Orders.

















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Page 16

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Viewing Work Orders – (Continued)

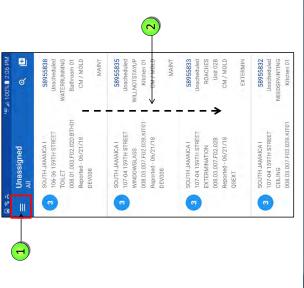
All of the WOs that you'll always area/location (Borough Wide Development / Managed BY). see are in the user's

Tap ≡ the Menu Button to go to list of Unassigned Work Orders the Menu in order to sort the in a different way.

Environmental Education Associates, Inc. NYCHA Mold Inspection Student Handouts

58955832 Unscheduled NEEDSPAINTING Kitchen 01 58955835 Unscheduled WILLNOTSTAYUP 58955838 Unscheduled ATERRUNNING Bathroom 01 CM / MOLD Kitchen 01 CM / MOLD ROACHES Unit 02B 58955833 SM / MOLD EXTERMIN 008.01.003.F02.02D.BTH01 Reported - 06/21/18 DEV008 008.03.007.F02.02B.KIT01 Reported - 06/21/18 DEV008. SOUTH JAMAICA I 107-04 159TH STREET CEILING SOUTH JAMAICA I 107-04 159TH STREET SOUTH JAMAICA I 106-36 159TH STREET 107-04 159TH STREET EXTERMINATION 008.03.007,F02.02B Reported - 06/21/18 QSEXT SOUTH JAMAICA I WINDOWGLASS m

Tap on 🗐 the Menu or Go To Tap Show My Work Orders manually slide your finger option to go to the list of button to go back to the assigned Work Orders. To Refresh your screen down the screen. Menu screen. (7)



Handheld informer Work Management Training – Mold Inspection **How To Search For Work Orders** December 2018

You can search for Work Orders

(F)

by tapping on the small a

magnifying glass

The default search criteria is ALL where you can use the keyboard and type a Work

7





Handheld informer Work Management Training – Mold Inspectior

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LEXTGENERATION NYCHA

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008.03.007.F02.02B.KIT01

Page 18

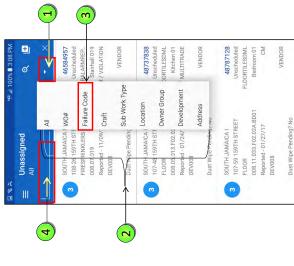
To search for more criteria, tap on 🕶 the down arrow and a list displays with all available search options. (-)

(7)

Select the search option you wish to Group, Development, and Address. You can search by ALL, Work Order Number, Failure Code, Craft, Sub explore and type a new search Work Type, Location, Owner criteria.

keyboard and start typing for this Tap on Failure Code and use the example, door. m

The system displays all the WOs with this criteria. 4



that start or begin with these

pg. 156

Rev. 4-26-22

displays all the Work Orders

of a WO and the system

typing the first few numbers

Use the keyboard and start

m

Order number to search for.



Page 19

A THE SHAPE OF THE

VENDOR

Dust Wipe Pending? No

Reported - 01/27/17 DEV008









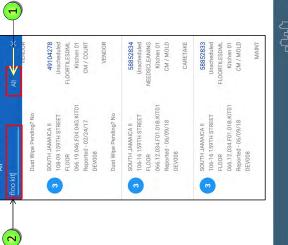




Page 20

P KA AN EN EN ON WICHA

How To Perform Multiple Searches – (Continued)



leaving a space in between Floor Kit

Type on the corresponding line

Tap DONE on the device keyboard

available Work Orders that matches

your search options.

Tap ALL

Environmental Education Associates, Inc.

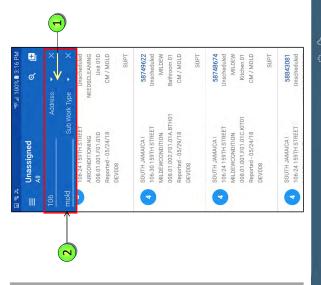
NYCHA Mold Inspection Student Handouts

By using the ALL option you can then start typing what you are searching

for separating each field by a space. The system displays all

You can search for more than **ONE**

criteria at once



Fap on the **small magnifying glass**

(7)

then tap on ▼ the down arrow and choose Sub Work Type from search

options list, and type on the

corresponding line mold.

(-)

choose Address from search

options list, and type on the

corresponding line 106.

criteria at once by using Multi-level

Search:

You can search for more than ONE

EXTGENERATION NYCH Handheld informer Work Management Training – Mold Inspectior

December 2018



Handheld informer Work Management Training – Mold Inspectior

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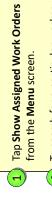
Tap on the device backward arrow

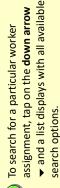
m

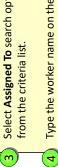
to remove the keyboard to see the

list.

Page 22







Select Assigned To search option

55201140 Unscheduled IMPFRCSURFDL

oyer/Hallway 01

CM / LBPASMAP

008.02.004.F03.03A.FH01 Reported - 11/28/17

MAINT

Stairhall 006 LOBBY

not want.

(-1)

Unassigned

keyboard. The system displays all the Work Orders assigned to this worker. keyboard, then tap DONE on the Type the worker name on the

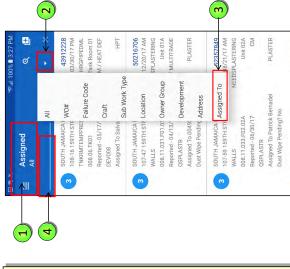
55227764 12/27/17 AM EDSPAINTING

008.02.005.F03.03B.BD01

Reported - 11/29/17 DEV008

MAINT

NOTE: The Assigned To option ONLY Worker Orders is selected. You can only search for one name at a time. appears when Show Assigned



SOUTH JAMAICA I 106-44 159TH STREET SOUTH JAMAICA I 106-50 159TH STREET 008.02.006.LOB01 Reported - 11/26/17 DEV008 **Viewing Work Orders** Tap on the X to collapse any search options that you do



A THE SHAPE OF THE

Page 23



55257367 Unscheduled ETOFFHINGES

SOUTH JAMAICA I 106-50 159TH STREET CLOSET

Dust Wipe Pending? No

PAINTSPV









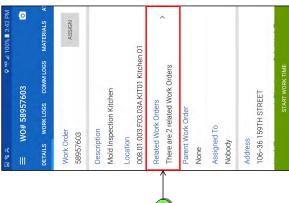




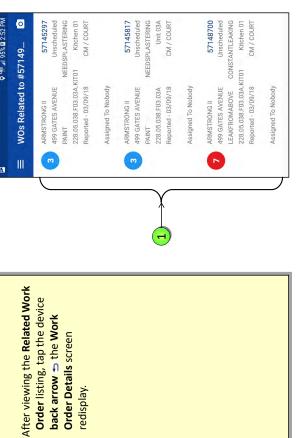


Viewing Related Work Orders

Related Work Order - An open apartment locations display. Work Order for the same apartment and non-



redisplay.





Mold Work Orders Process - Inspection

Show Unassigned Work Orders

The first Parent Work Order

appears in:

Show CM /DM Work Orders

(-)

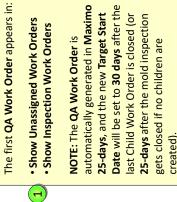




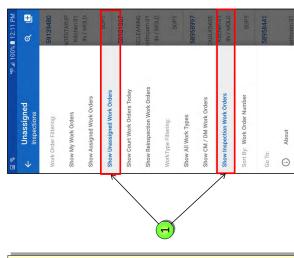
Handheld informer Work Management Training – Mold Inspectior Page 26



Mold Work Orders Process - QA



The Target Finish Date is set to 15 days after the Target Start Date. If either Target Start Date or Target Finish Date fall on a weekend or a holiday, then next business day.



	Unassigned © ⊕ □	Work Order Filtering:	Show My Work Orders rig 64 ROOF	Show Assigned Work Orders	Show Unassigned Work Orders	Show Court Work Orders Today nscheduled	Show Reinspection Work Orders athroom 01	WorkType Filtering:	Show All Work Types.	Show CM / DM Work Orders SCLEANING	Show Inspection Work Orders CM / MOLD	Sort By: Work Order Number	Go To: 59139471	TO THE PROPERTY OF THE PARTY OF
--	------------------	-----------------------	---------------------------------	---------------------------	-----------------------------	---	--	---------------------	----------------------	------------------------------------	---------------------------------------	----------------------------	-----------------	--



appear in Show Assigned Work

Orders or Show My Work

Orders.

assigned to a worker it will

NOTE: If the Work Order is











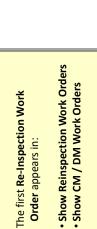


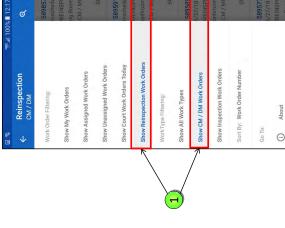
dandheld informer Work Management Training – Mold Inspection

Page 28

NEXTGENERATION NYCHA

iWM Mobile Application Training - Agenda





"€", 100% ■ 12:17 PM	ø	58985772 Inscheduled	REINSPECT ng Room 01	CM / MOLD	SUPT	58959152 ay inscheduled	ers athroom 01	TRICK	58958582	5/27/18 PM REINSPECT		SUPT	58957787	REINSPECT
	Reinspection CM / DM	Work Order Filtering:	Show My Work Orders	Show Assigned Work Orders	Show Unassigned Work Orders	Show Court Work Orders Today	Show Reinspection Work Orders	WorkType Filtering:	Show All Work Types	Show CM / DM Work Orders	Show Inspection Work Orders	Sort By: Work Order Number		
)P	\downarrow	Work (Show	Show	Show	Show	Show	WorkT	Show	Show	Show	Sort B	Go To:	(





View Work Order Details

Details by scrolling up and down on The user can review the Work Order

(-)

the **Details** tab

Handheld informer Work Management Training – Mold Inspection

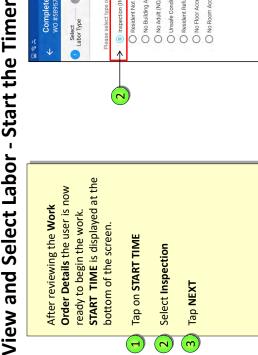
Page 30

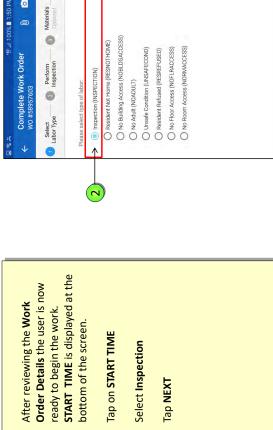


~

The fields below are unique for the

Mold Inspection Work Order:







should see the **Reinspection Work**

Order on his device and right

submit Re-Inspection results.

there and then complete and

immediately and the person who

submits the QA Work Order,

NOTE: Maximo creates the Re-

nspection Work Order

Owner Group

DEV008 Message Code

Jun 22, 2018 10:01 AM

Scheduled Start

Failure Class = MILDEWCONDITION

Problem Code = MILDEW

Job Plan# = INSMOLDCM

Work Type = CM

(7)

Sub-work Type = MOLD

Jun 22, 2018 9:47 AM Actual Reported Date

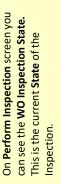
MEXTGENERATION NYCHA

NEXTGENERATION NYCHA

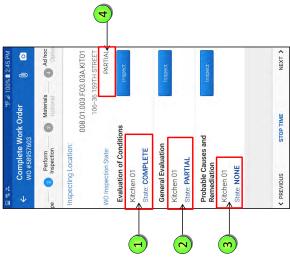
Handheld informer Work Management Training – Mold Inspection

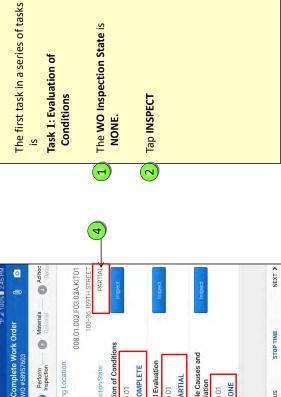
STOP TIME

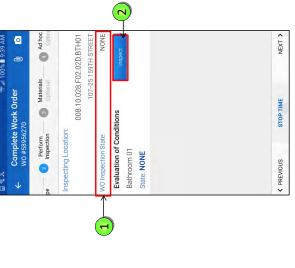
Perform Inspection













A HOUSEN

screen and on the Work Order List

Evaluation of Mold Growth – (Continued)





Page 34





Evaluation of Mold Growth – (Continued)



Evaluation of Conditions

Notes (optional)

S Yes

(None) (None)

Is Moisture Measurement > or equal to 599?

(Yes/No) (Yes/No)

Evaluation of Conditions screen

(-)

requires evaluation for:

Moisture Measurement >= 599

(Yes/No)

 Water Damaged Mold Growth

Tap NONE next to Is there mold

growth?

pg. 160 Rev. 4-26-22

Is there Water Damage?

All questions that have an asterisk

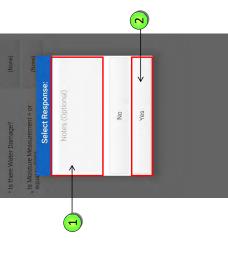
(*) are mandatory.

Items that must be inspected are

marked by a red asterisks (*)

Is there mold growth?

- In the **Notes** field, the user can input free-text information. (-)
- Tap YES 7





















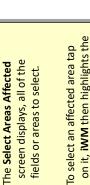


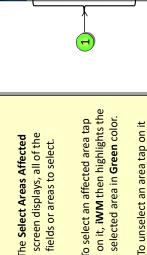
Handheld informer Work Management Training – Mold Inspection

Page 36

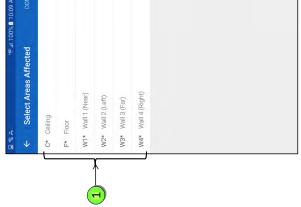
MEXICAL STORY NOCHA

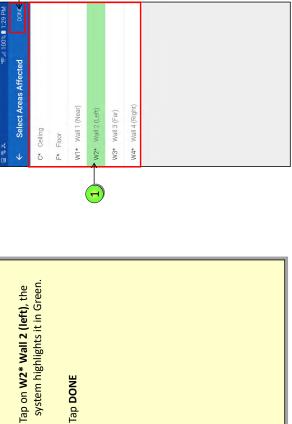
Evaluation of Mold Growth – (Continued)

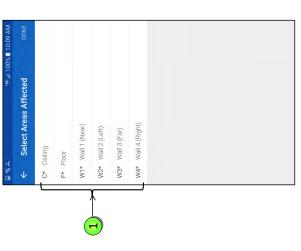




(7)









Handheld informer Work Management Training – Mold Inspection

HOUSENS NA





Evaluation of Mold Growth – (Continued)

Evaluation of Mold Growth – (Continued)

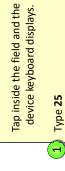
displays, the Square Footage

The FollowUp Info screen

which is a Mandatory field:

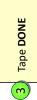
Tap SQUARE FOOTAGE

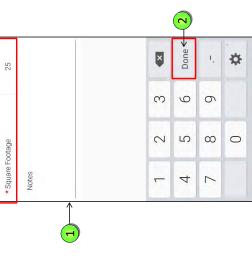
(-)

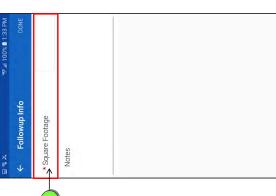


Followup Info

Tap DONE on the device keyboard 7









NOTE: Square footage is the total

of all areas added together.





MEXICE HER AND NOCHA

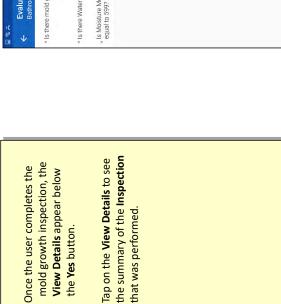
NEXTGENERATION NYCHA

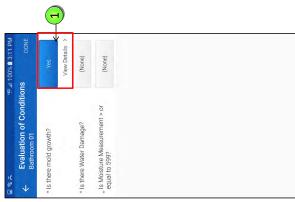
Page 40

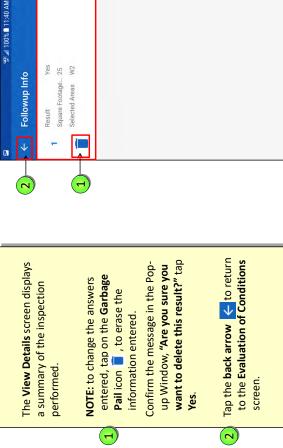
again and the Green bar

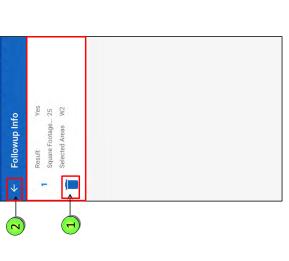
disappears.

Evaluation of Mold Growth – (Continued)











Evaluation of Water Damage



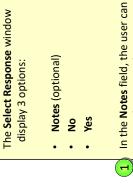








Evaluation of Water Damage – (Continued)



(None)

Is there Water Damage?

Is there mold growth?

Conditions screen is: "is there question on the Evaluation of

Water Damage?"

The second Mandatory

Is Moisture Measurement > or equal to 599?

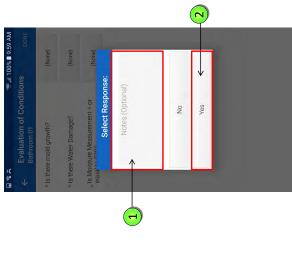
Tap NONE next to is there

(-)

Water Damage?



input free-text information.









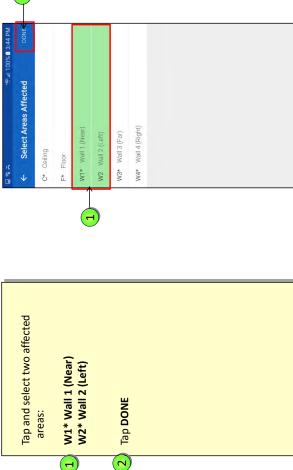
MEXTGENERAL NORTH

Handheld informer Work Management Training – Mold Inspection

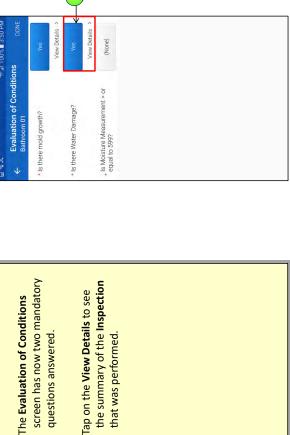
Page 44



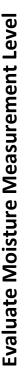
Evaluation of Water Damage – (Continued)



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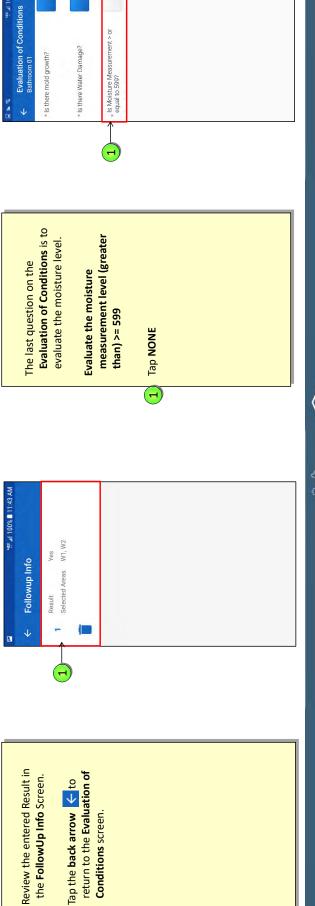


Evaluation of Water Damage – (Continued)

(-)

View Details

(None)



pg. 163 Rev. 4-26-22

Page 48

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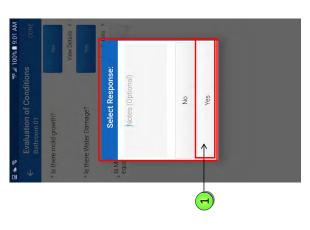
MEXTGENERATION NYCHA

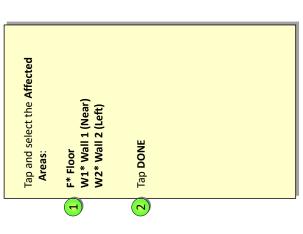
NEXTGENERATION NYCHA

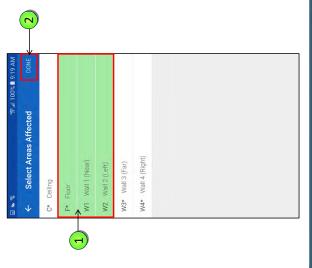
Handheld informer Work Management Training – Mold Inspection

Page 52

Moisture Measurement Level window box, select YES or NO. f YES is selected, select the From the Select Response areas listed where the is greater than (>=25). Tap YES













Evaluate Moisture Measurement Level – (Continued)

Handheld informer Work Management Training – Mold Inspection

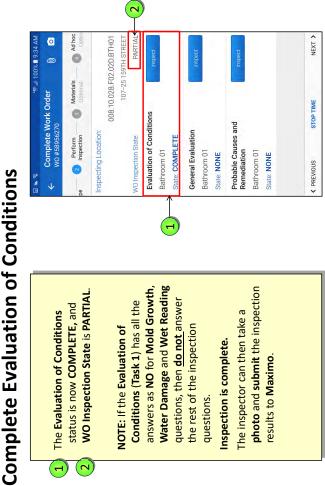
Page 49

December 2018











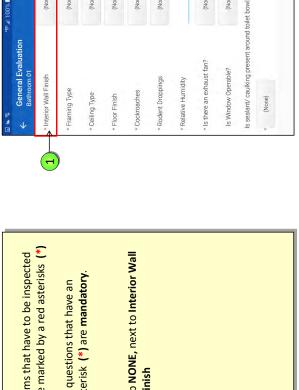


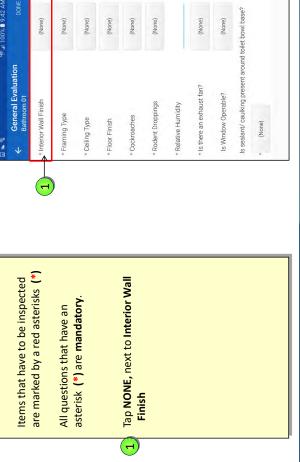
pg. 164 Rev. 4-26-22

Perform General Evaluation Inspection – (Continued)



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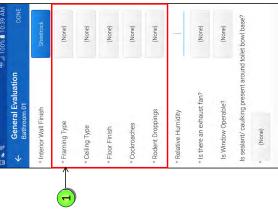
IEXTGENERATION NYCH

Handheld informer Work Management Training – Mold Inspectior

Page 53

Page 54





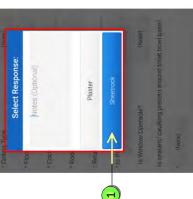


A Select Response window displays, select the finish:

Plaster or Sheetrock

Tap Sheetrock

(1)







Handheld informer Work Management Training – Mold Inspection

Page 55

December 2018

ATTENDED TO THE PERSON OF THE

pg. 165 Rev. 4-26-22















Perform General Evaluation Inspection – (Continued)

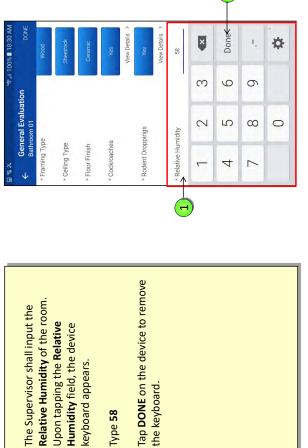
The answers to the questions below determines the remediation methods used.

- Interior Wall Finish: Sheetrock
- Ceiling Type: Sheetrock Framing Type: Wood
- Floor Type: Ceramic
- Rodent Droppings: Yes Cockroaches: Yes
- above, there would be 2 WOs 1 for Order for Exterminator for every NOTE: Maximo will automatically generate ONE open Child Work apartment. For example in the single Organism found in the Cockroaches and 1 for Mice.



Type **58**

(7)





Handheld informer Work Management Training – Mold Inspectior Page 57 Perform General Evaluation Inspection – (Continued)



Page 58



EXTGENERATION NYCH

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Handheld informer Work Management Training – Mold Inspectior



exhaust vent in the appropriate field. The Supervisor shall enter the CFMs (Cubic Feet Measurement) at the

(1)

will automatically generate a Work If there is an Exhaust Fan, Maximo

Order to clean the vent upon submission of the inspection

answer "Is there an exhaust fan?"

question as YES or NO.

kitchen, the Supervisor shall

If the location is a bathroom or a

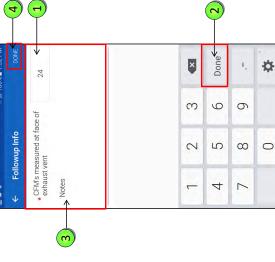
The CFM's measurement is a mandatory field.

- Type 24 on the device keyboard.
- Tap DONE on the device keyboard. The Notes field is optional. 7 m

9

submission of the inspection results. Maximo will auto-generate a Work Order to check the roof fan, upon NOTE: If CFM is less than (<25),





















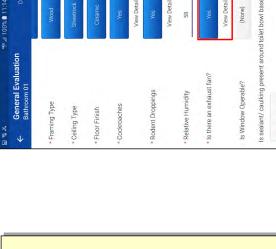


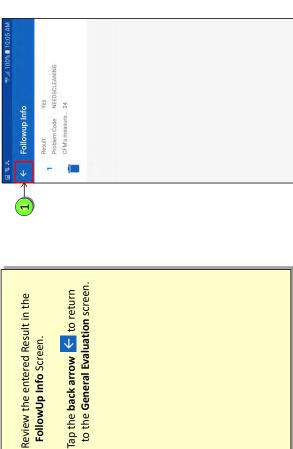
Handheld informer Work Management Training – Mold Inspection

Tap YES

results.

Perform General Evaluation Inspection – (Continued)

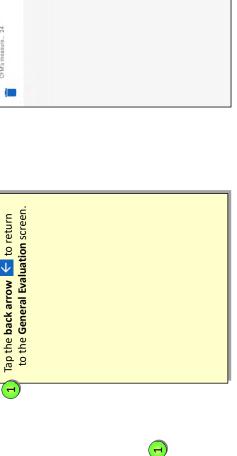




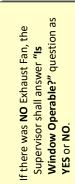


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NYCHA Mold Inspection Student Handouts





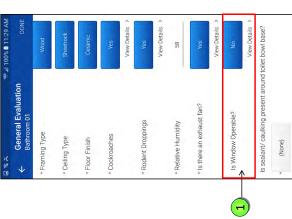


Window Operable field to review Tap on View Details below the information entered. (-)

generate a Work Order to fix the NOTE: If the Supervisor answers window, upon submission of question, Maximo will auto-**NO for Window Operable** nspection results.

pg. 167

Rev. 4-26-22





Handheld informer Work Management Training – Mold Inspection

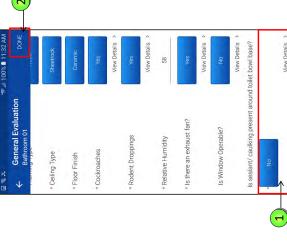
EXTGENERATION NYCH

Page 61

Page 62

Tap NONE and select NO from the NOTE: Maximo will auto-generate a Work Order, if the answer is NO, to fix the caulking/sealant with mold resistant caulking, upon submission of the inspection Select Response window. (H)









Handheld informer Work Management Training – Mold Inspection

Page 63





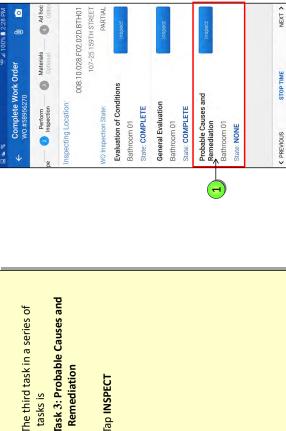










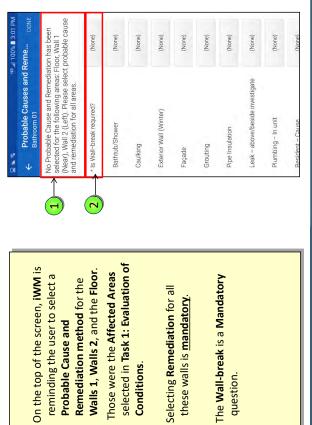


Tap INSPECT

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tasks is



(7)





Handheld informer Work Management Training – Mold Inspection Page 66

The Select Response window

appears for the Wall-break

question. The available

answer is YES or NO.

Tap YES

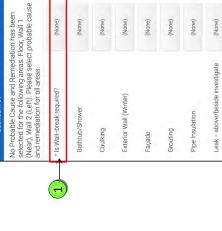
(-)

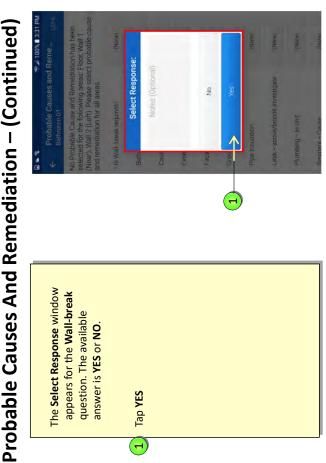


Probable Causes And Remediation – (Continued)

Probable Causes and Reme...



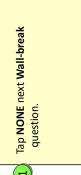






Rev. 4-26-22

for whichever causes are





(None)

Plumbing - In unit





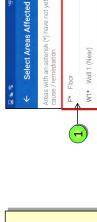








NEXTGENERATION NYCHA



Only the **"Areas Affected**" that

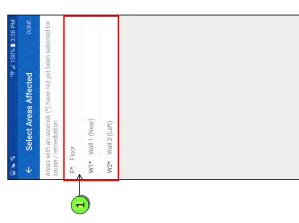
were selected from Task 1:

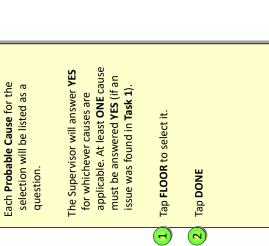
All the Areas Affected by the

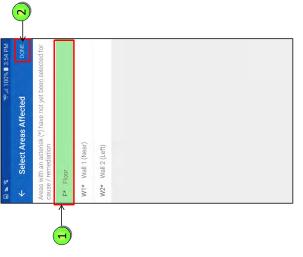
Wall Break.

Evaluation of Conditions will

show on the list.









Probable Causes And Remediation – (Continued)

dandheld informer Work Management Training – Mold Inspection

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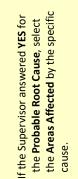
NEXTGENERATION NYCH

Handheld informer Work Management Training – Mold Inspectior

Page 69

December 2018

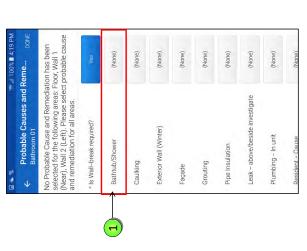
Page 70

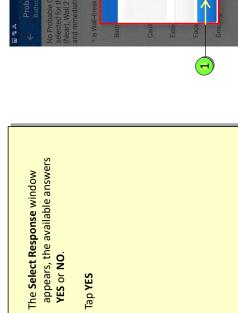


NOTE: Only "Areas Affected" that Area Selected from Task 1 must were selected from **Task 1** will show in list. And EACH surface be accounted for against a Probable Cause.

Multiple surface areas can be selected per Probable Cause.

Tap NONE next to Bathtub/ Shower





(H)



NEXTGENERATION WYCHA

Handheld informer Work Management Training – Mold Inspection

NEXTGENERALISM NYCHA

Handheld informer Work Management Training – Mold Inspection

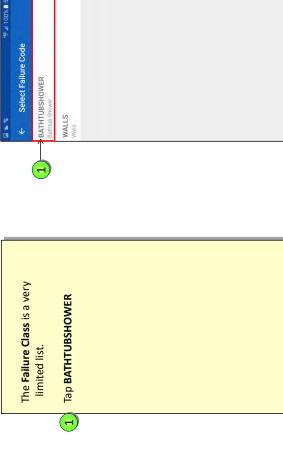
Page 72

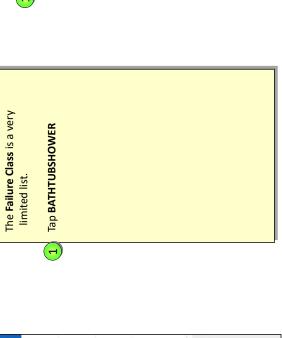


Tap on each area separately

and enter the remediation

method.





Problem Code Please select...

0

Please select..

Notes

Location

Failure Class Please select..

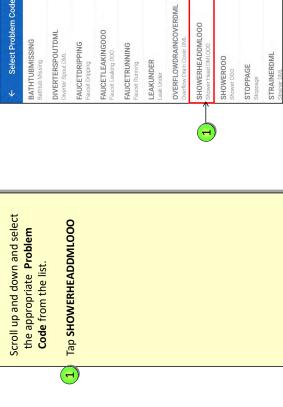
0

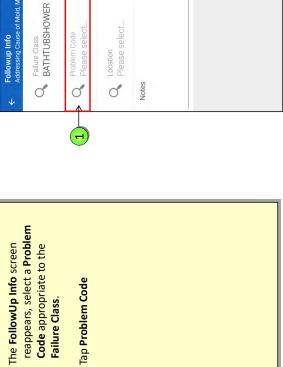
← Followup Info

The FollowUp Info screen displays, with 4 fields:









pg. 170 Rev. 4-26-22

(-1)



PART OF THE STATE OF THE STATE

Page 76

Tap Failure Class

Notes (Optional)

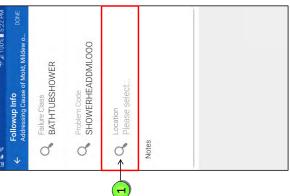
Problem Code

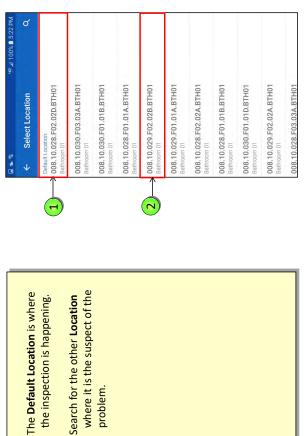
Location

Failure Class

problem.

(7)







Probable Causes And Remediation – (Continued)



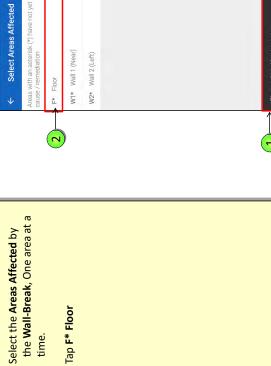


dandheld informer Work Management Training – Mold Inspection



Probable Causes And Remediation – (Continued)

the Wall-Break, One area at a Tap F* Floor time. **(2)** (1)



008.10.029.F02.02B.BTH0

0

Problem Code SHOWERHEADDMLOOO

0

Failure Class
BATHTUBSHOWER

0

Followup Info

The completed FollowUp Info screen, with all the fields.

Tap DONE

-

















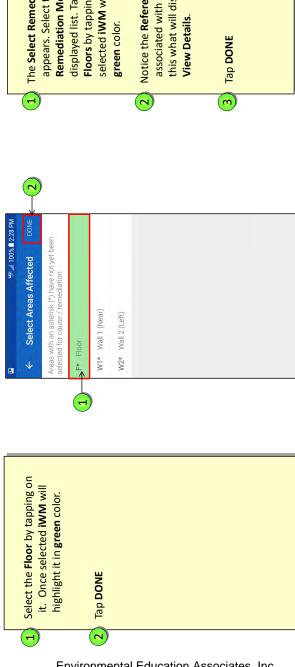




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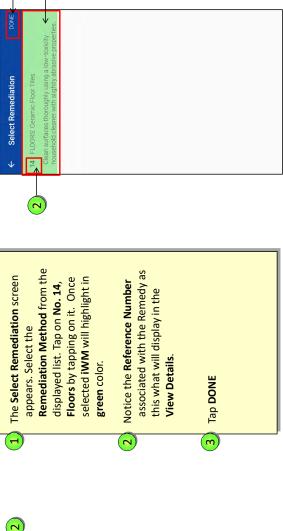
plumbing problems

Notes



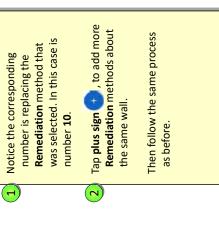


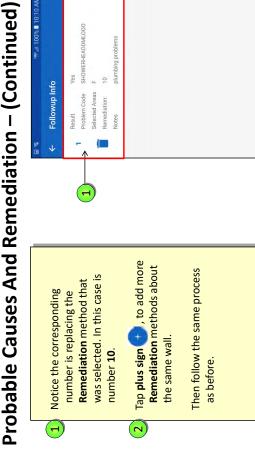
-

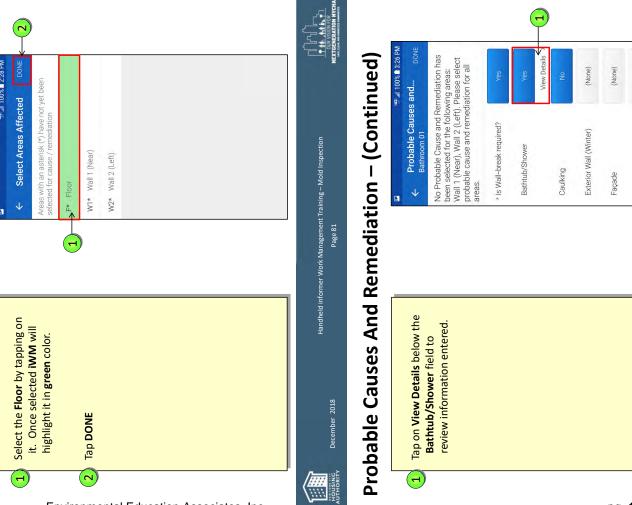




dandheld informer Work Management Training – Mold Inspection







MEXTGENERATION NYCHA

Handheld informer Work Management Training – Mold Inspection

NEXTGENERATION NYCHA

Handheld informer Work Management Training – Mold Inspection

Page 83

(None) (None)

Grouting

Pipe Insulation

Repeat the same process for all

the Areas Affected selected

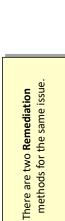
from the Evaluation of

Conditions.

and Remediation methods for Wall 1 and Wall 2 selected in

Complete a Probable Cause

(T)



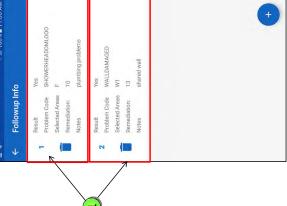
(-)

sure you want to delete this entered, tap on the Garbage NOTE: to change the answers Confirm the message in the Pop-up Window, "Are you Pail icon 🗻 , to erase the information entered.

return to the Evaluation of Tap the **back arrow** ← to Conditions screen.

result?" tap Yes.

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No Probable Cause and Remediation has been selected for the following areas: Wall 1 (Near), Wall 2 (Left). Please select View Details probable cause and remediation for all (None) (None) (None) (None) Probable Causes and... Is Wall-break required? Exterior Wall (Winter) Bathtub/Shower Pipe Insulation Caulking Façade Grouting

DUR VISION FOR MEXTGENERATION NYCHA Handheld informer Work Management Training – Mold Inspection Page 85

December 2018

Probable Causes And Remediation – (Continued)

Depending on the wall type the

Remediation methods can

vary.

Choose what's the appropriate

remedy by tapping on the different Remediation

method.





Handheld informer Work Management Training – Mold Inspection Page 86



Probable Causes And Remediation – (Continued)

Method. iWM will highlight Tap on 1 or 2 Remediation them in Green.

Remove and dispose of cabinetry. Replace cabinetry

12A Bathtub and shower grout/caulking (Bricklayer)

11B Bathroom Vanities (significant mold)

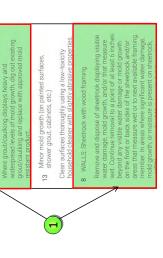
Select Remediation

Where grout/caulking displays heavy and widespread levels of mold growth, dig out existing grout/caulking and replace with approved mold

Tap DONE (7)

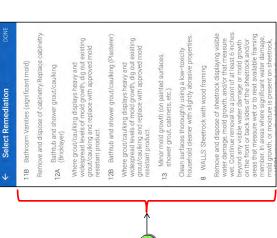
Remediation screen redisplays. The Probable Causes and

Tap on View Details





pg. 173 Rev. 4-26-22





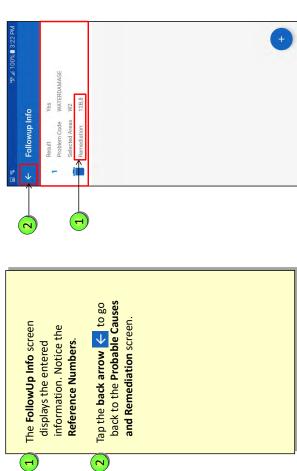




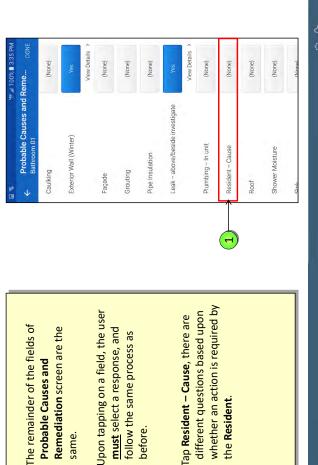








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Probable Causes And Remediation – (Continued)

The remainder of the fields of

Remediation screen are the

Probable Causes and

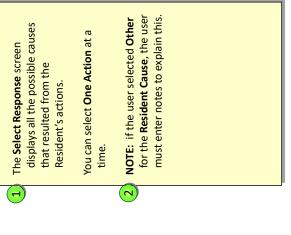


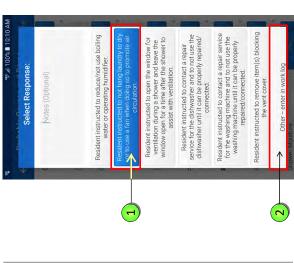


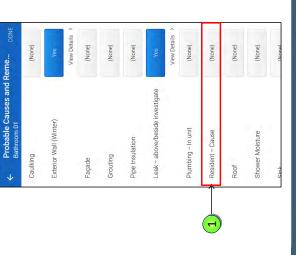
Handheld informer Work Management Training – Mold Inspection Page 90



Probable Causes And Remediation – (Continued)







Tap on NONE next to the Resident – Cause field.

before.

Jpon tapping on a field, the user

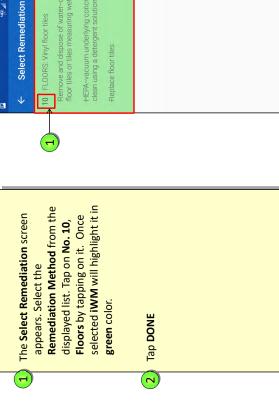
must select a response, and follow the same process as



~



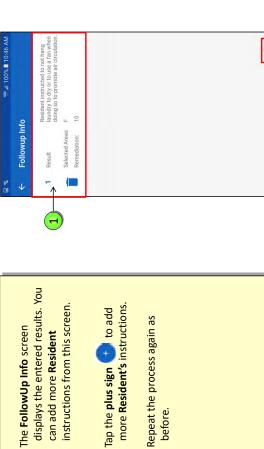
NYCHA Mold Inspection Student Handouts







Page 93





1

(7)





pg. 175 Rev. 4-26-22

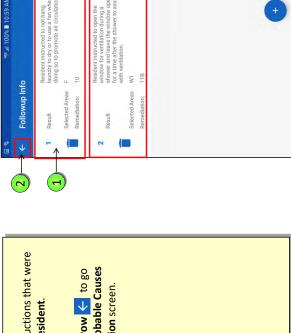


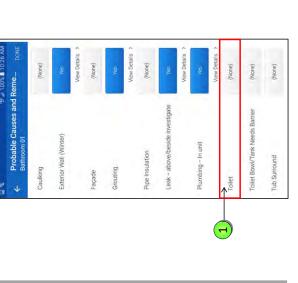


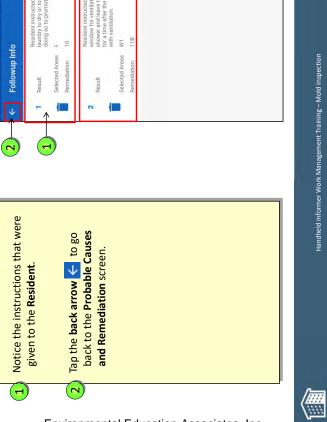


Scroll down and select Toilet.

Tap NONE next to Toilet.







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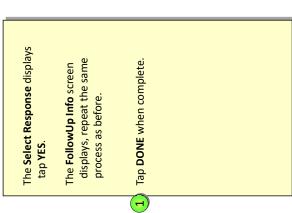




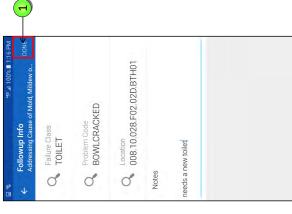
Handheld informer Work Management Training – Mold Inspection Page 98

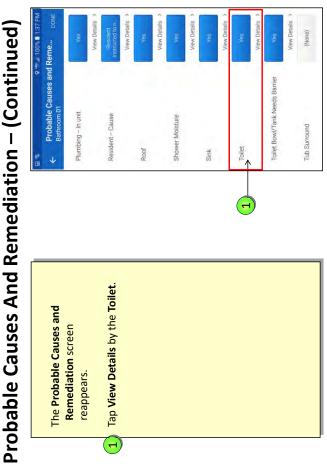


Probable Causes And Remediation – (Continued)



pg. 176 Rev. 4-26-22





Tap View Details by the Toilet.

The Probable Causes and

Remediation screen

reappears.



December 2018



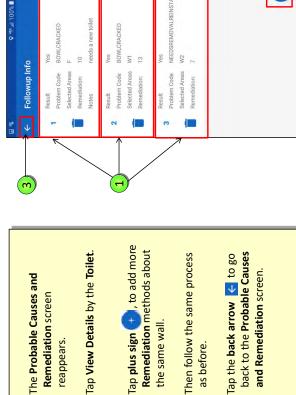






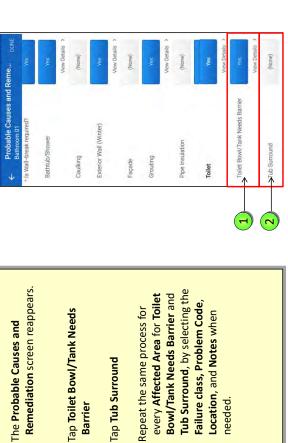






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NYCHA Mold Inspection Student Handouts





Now the **Probable Causes and**

-

Remediation screen are the

information the user entered.

Tap DONE to save all the

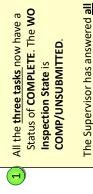








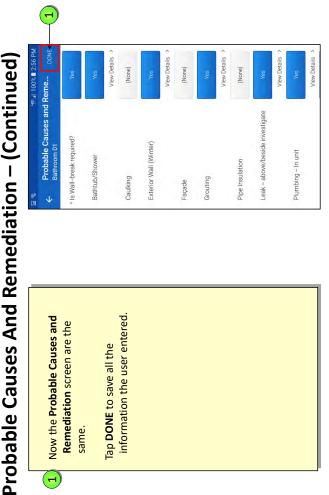
Inspection Status





the required fields after performing the inspection.

















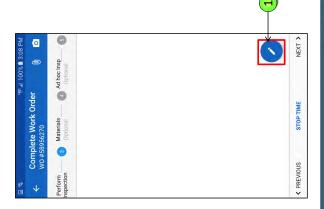


the correct items were added by the Work Order to ensure that check the materials applied to This screen allows workers to the Storeroom person.

Initially it is blank.

Storeroom Keeper, can be found Any materials received from the in your personal storeroom.

document the materials used for Tap the pencil icon 🔼 to this Work Order from your personal storeroom.



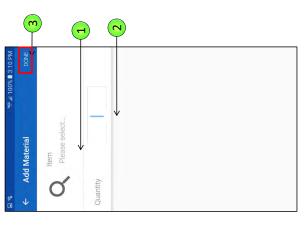
Materials - (Continued)

Select an item from the list of materials that are in your personal storeroom.

used to do the repair for the Enter the Quantity that was Work Order. (7)

When completed, tap DONE. (m) This item will be moved to the previous Materials screen.

For this example, add one Smoke Detector.



Page 106

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Handheld informer Work Management Training – Mold Inspection

Page 105

Returning Materials Issued - (Continued)

the storeroom keeper will apply

Maintenance worker used less,

If the material issued is more than ONE in quantity and the material to the storeroom, only

the return of the remaining

physically returns the material

to the storeroom.

when Maintenance workers

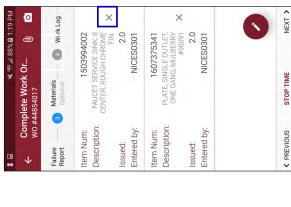


Returning Materials Issued - (Continued)

Work Order from a personal You can add materials to a storeroom

remove the item by hitting the NOTE: if you realize a mistake X button next to it. This puts was made, you can now the item back into your personal storeroom.

added by the storeroom person were added by another user or onto the Work Order - you can **ONLY** remove items you issued You cannot remove items that onto the Work Order.



X X Work Log PLATE, SINGLE OUTLET, ONE GANG, MULBERRY #98091 FAUCET SERVICE SINK, 8 CENTER, ROUGH CHROME FIN. 1503994002 NICES0301 1607375341 Complete Work Or... Materials Description: Description: Item Num: Entered by: Item Num: Entered by: Issued: Failure

Handheld informer Work Management Training – Mold Inspection

Page 107

NEXT >

STOP TIME

< PREVIOUS





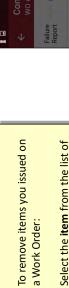






Page 108

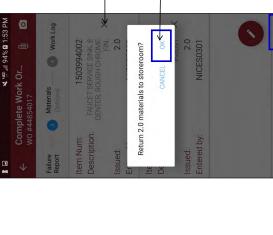
NEXTGENERATION NYCHA



a Work Order:

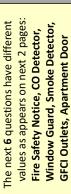
materials that you want to

remove by tapping the X button next to it.

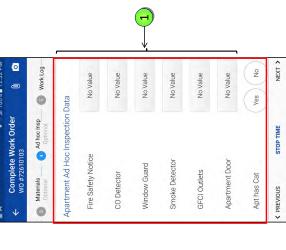


The Ad Hoc Inspection is Optional for every Mold related Work order	or an apartment.
---	------------------

Ad Hoc Inspection Details - Optional



Tap the No Value button and select the appropriate option for each



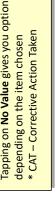
Ad Hoc Inspection Details – (Continued) Page 109



of the screen. For this WO, type in Scroll down to the second portion

(H)

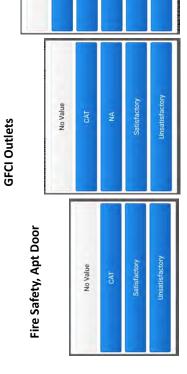
Apartment Temp and Water Temp.



Window Guard

No Value





2

Apt has Dog

Apartment Temp

Water Temp

No Value

Apartment Door

NOTE: You must save any entries

you have made.

Tap SAVE

7

Tap NEXT

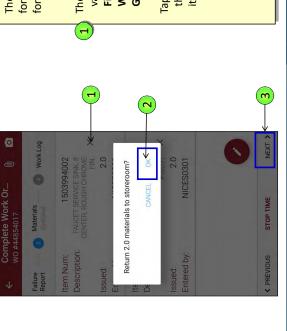
3

pg. 179 Rev. 4-26-22

GFCI Outlets

Yes

Apt has Cat



This item will be moved to the

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NYCHA Mold Inspection Student Handouts

Tap OK

previous Materials screen.

Tap NEXT

3









Page 110





Handheld informer Work Management Training – Mold Inspection

Page 111

December 2018

ATTENDED TO THE PERSON OF THE

NEXT >

STOP TIME

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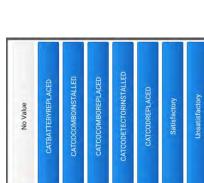


MEXICENERATION WYCHA



Ad Hoc values have changed slightly for CO Detector and Smoke Detector. The CAT values now have more details to show on what was done to correct the issue.

CO Detector

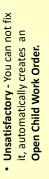


Smoke Detector



NYCHA standard (No work Satisfactory - Issue meets needed)

Ad Hoc Inspection – (Continued)



battery replaced to the item in offers a range of options from CAT (Corrective Action Taken) question being replaced.



Enter Work Log - (Continued)

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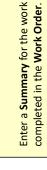
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Handheld informer Work Management Training – Mold Inspection

Page 113

Page 114



Tap the Summary field, the keyboard will display.

Tap the pencil icon to enter 🚫

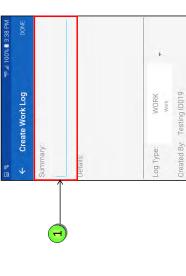
(2)

a summary of your work.

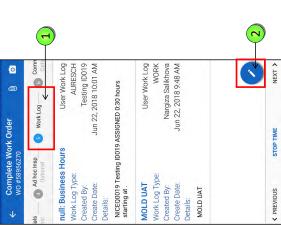
The Work Log entries are

displayed.

Enter Work Log

















Handheld informer Work Management Training – Mold Inspection

Page 115





Handheld informer Work Management Training – Mold Inspection

Page 116

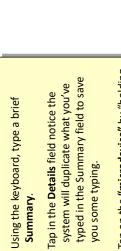
OUR VISION FOR NEXT GENERAL MECHA

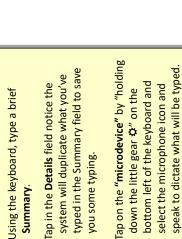
Address: 107-25159TH STREET

Site ID: QS

reation Date: Tue, Jul 3, 2018

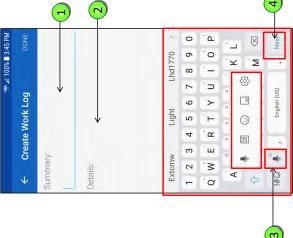
Vork Order: 58956270





3

Environmental Education Associates, Inc. NYCHA Mold Inspection Student Handouts

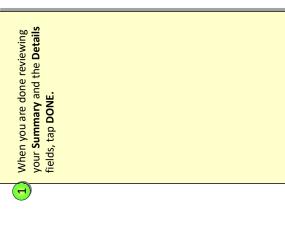


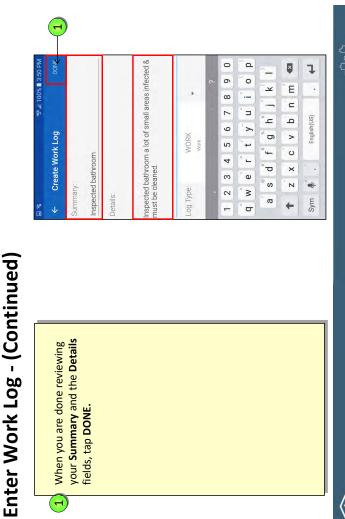
NOTE: Once it is used the system will

remember the last time icon used

and keep it selected.

Tap NEXT















user to make a phone call for any Apartment Location Work Order. There are 3 methods for iWM Log or Call Log. The First method:

Capture phone Communication

Com

5 Work Log

User Work Log

Testing ID019 Jul 3, 2018 3:38 PM

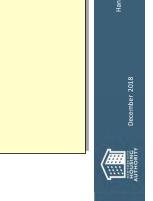
Communication Log

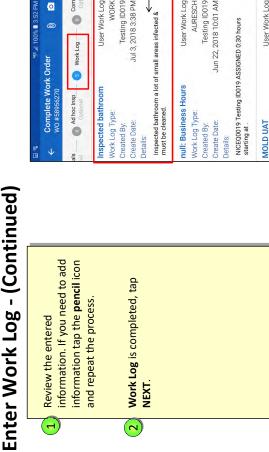




Testing ID019 Jun 22, 2018 10:01 AM

User Work Log





(7)





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Nargiza Sal Jun 22, 2018 9:4

Work Log Type: Created By: Create Date:

User Work Log





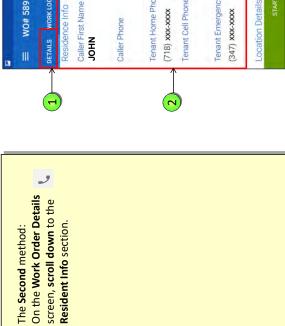


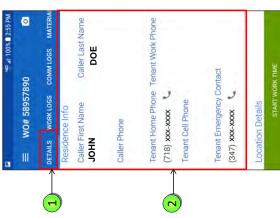


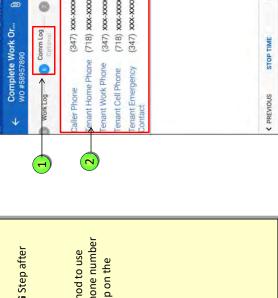


















Handheld informer Work Management Training – Mold Inspection

Page 121

Communication Log – (Continued)

A Call Tenant window appears

with the number you have

picked.

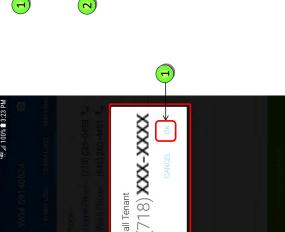
Tap OK to call

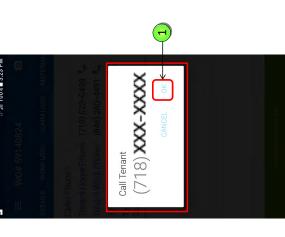
(-)

















Handheld informer Work Management Training – Mold Inspection

Page 123









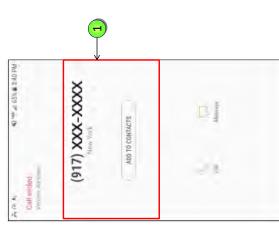
Handheld informer Work Management Training – Mold Inspection

Page 124

PART OF THE STATE OF THE STATE

Communication Log – (Continued)

The Call Ended screen, wait for 2-3 seconds until the COMM LOG is created.



An entry is made on the COMM LOGS step which shows the following information:



Communication Log – (Continued)

the phone number called

(347) xxx-xxxx (718) xxx-xxx (347) xxx-xxxx (718) xxx-xxx (347) xxx-xxxx

Saller Phone

enant Home Phone enant Work Phone

Work Log

- the iWM user who made the call the date and time of the call
- the duration of the call
- calculated by iWM when the user NOTE: The Duration Time is

presses "OK" in the Second step

until call ended.

Testing 1D019 2018/07/11 15:21:52 0 mins, 3 secs

(718) xxx-xxxx

Fenant Home Phone

Called by:

Call duration Called Date:

enant Emergency enant Cell Phone

NEXT >

STOP TIME

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The same log will appear in Maximo in the Communication Log tab.

Handheld informer Work Management Training – Mold Inspection

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Handheld informer Work Management Training – Mold Inspectior

Page 125

Page 126

Taking Photos for Work Orders

NYCHA has made it very easy to automatically attached to the Photos can be taken anytime add photos to Work Orders. during the work flow and Work Order.

Mold and Mildew Work Orders as evidence for supervisors and NOTE: Photos are required for courts to evaluate.

upper right corner to open the Tap on the Camera icon in the camera.

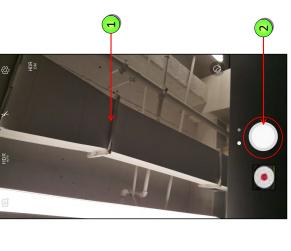


Taking Photos for Work Orders - (Continued)

Tap the image on the preview screen to focus the camera. (F) (7)

Then, tap the Circle icon at the bottom of the screen to take the photo.

NOTE: Once you save a picture you can not delete it.

















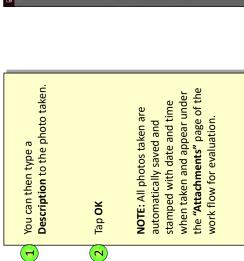


Page 128

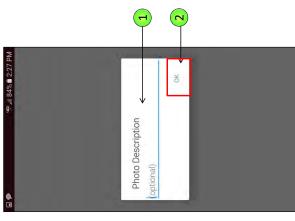
NEXTGENERATION NYCHA

 H

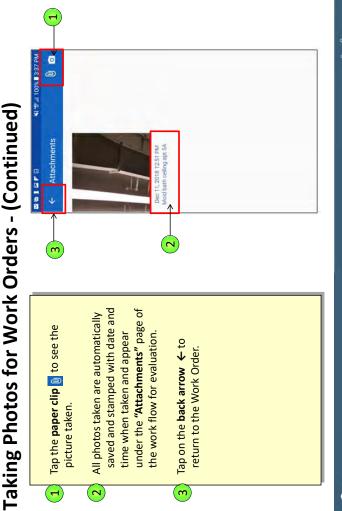
7



(7)



m





RESIDENT, WORKER and

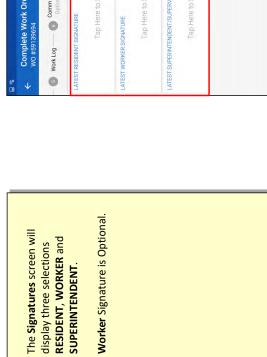
SUPERINTENDENT.

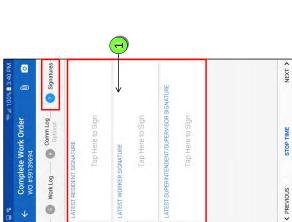
display three selections

-

Handheld informer Work Management Training – Mold Inspectior

Page 129



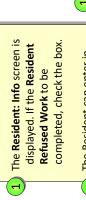




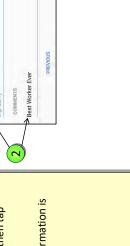
Page 130

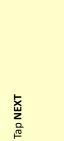
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OUR VISION FOR NEXT GENERAL MECHA

Handheld informer Work Management Training – Mold Inspection

Handheld informer Work Management Training – Mold Inspection

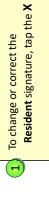


NEXTGENERATION NYCHA

NEXTGENERATION WYCHA

Handheld informer Work Management Training – Mold Inspection

Capture Resident Signature – (Continued)



7 Signatu

Comm Log

Work Log

Complete Work Order

New Signature?





When the Resident Signature screen reappears where the Resident can sign again.

A B A





8



NEXT >

STOP TIME

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Handheld informer Work Management Training – Mold Inspection Page 134





EXTGENERATION NYCH

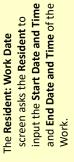
Page 133

Resident Satisfied?

December 2018

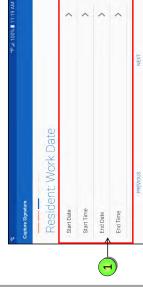
The resident can fill out additional information.

Resident: Work Date



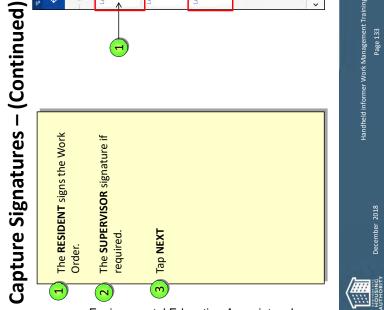
Tap on Start Date in order to enter in date.

(-)









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Resident is Satisfied YES/NO. The resident can select YES or NO by tapping on the radio The next screen asks if the **NOTE:** This information is

question, the RESIDENT: WORK

DATE screen appears.

Once the user answers the

optional for the Resident.

button.

(-)

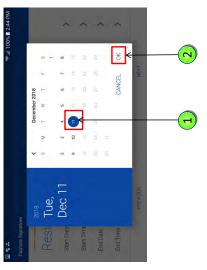
Resident Confirmed Work

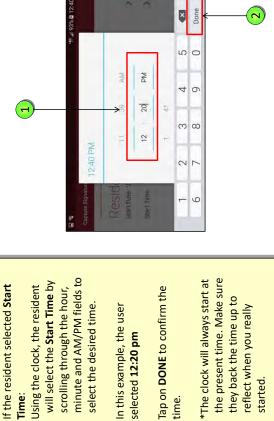
resident will select the Start Date by tapping on the date. Using the Calendar, the

F

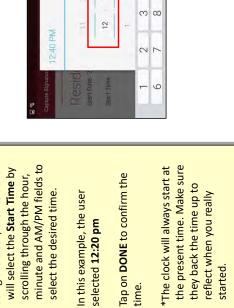
selected December 11th, In this example, the user

device the next screen will look NOTE: Depending on Android OS version installed on your Tap **OK** to confirm the date. different.









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Handheld informer Work Management Training – Mold Inspection Page 137

December 2018

*The clock will always start at the

reflect when you really started.

If the resident selected Start

(-)

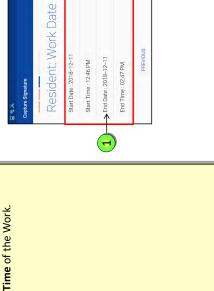
resident backs the time up to present time. Make sure the

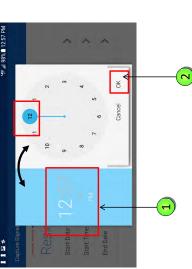
Page 138

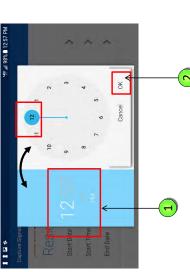


Resident: Work Date Resident Confirmed Work – For Android 7 Users Only

The resident entered the Start Date/Time of the Work. Date/Time and End







select the Start Time by tapping on the hour, and the minute by

Using the clock, the resident can

OUR VISION FOR NEXT CENERAL MESSAGE AND MYCHA

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APHSING APPLICATION OF THE PROPERTY OF THE PRO



11:45 am

In this example, the user selected

Tap on **OK** to confirm the time.

right or left accordingly. Then tap on **AM/PM** field to select

the desired time.

moving the blue circle to the

Resident: Info

The Resident: Info screen is

displayed. If the Resident

completed, check the box.

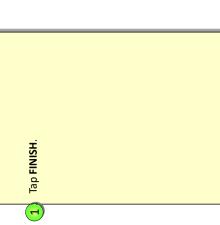
Refused Work to be

The Resident can enter in

COMMENTS, then tap

their NAME and any





NEXT

PREVIOUS

NOTE: This information is

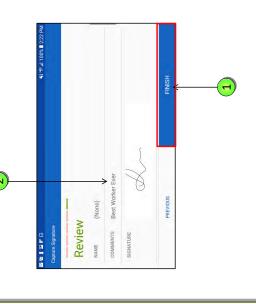
Environmental Education Associates, Inc.

NYCHA Mold Inspection Student Handouts

optional.

Tap NEXT

est Worker Ever





Handheld informer Work Management Training – Mold Inspection

Page 141

December 2018

Worker Signature - Optional

WORKER signature is

Optional.

The signature should be added

in the same way as the

(7)

Resident's Signature.

Page 142

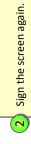


Worker Signature - Optional

This signature should be added Resident Signature was added in the same way as the

The New Signature screen appears, tap YES

entered Signature, tap X To change or correct the



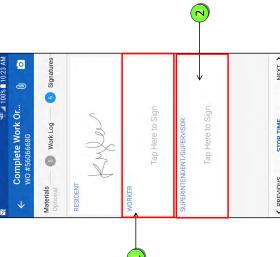


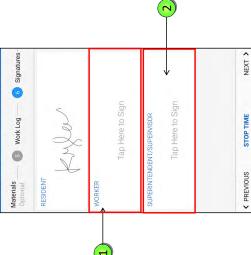


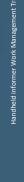


NEXTGENERATION NYCHA

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A A A A B A B A

Review Worker Information

Comments, and Signature.

Tap **NEXT** the Final review

(7)

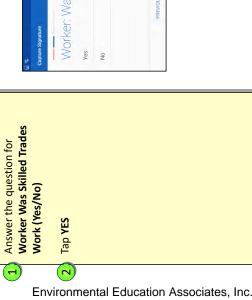
screen appears

Tap FINISH

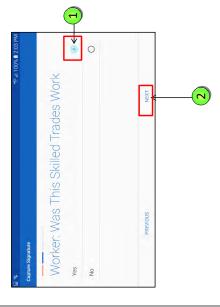
m

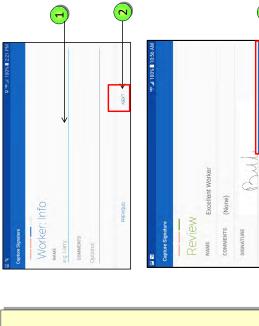
Review the worker Name,

(H)



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Supervisor Signature

December 2018

SUPERVISOR'S signature if

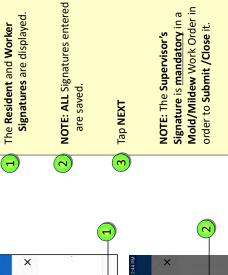
required.

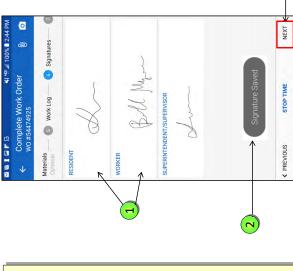
If necessary obtain the

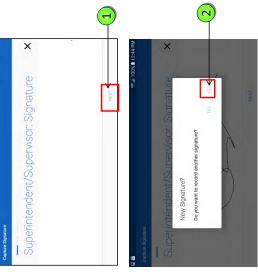




Review Captured Signatures











MEXTGENERATION NYCHA

NEXTGENERATION NYCHA

Handheld informer Work Management Training – Mold Inspection

Page 148







Labor

4€ ⊿ 100% 12:09 PM <u></u>

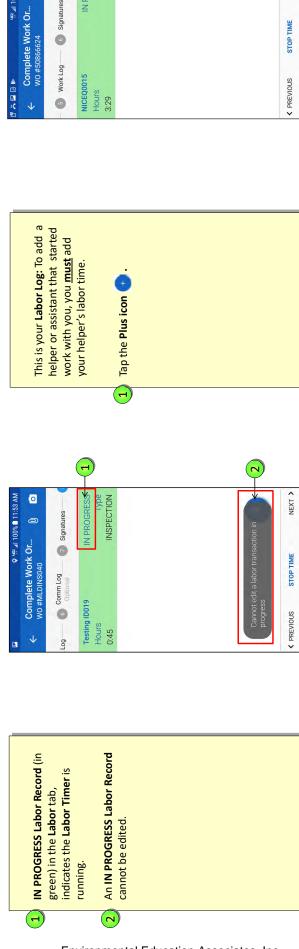
Signatures

NEXTGENERATION NYCHA

Handheld informer Work Management Training – Mold Inspection

Page 152

ATTENDED TO THE PERSON OF THE



Additional Labor - (Continued)

444

dandheld informer Work Management Training – Mold Inspection

A THE STATE OF THE

EXTGENERATION NYCHA

Page 150

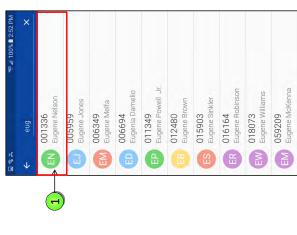
NEXT >

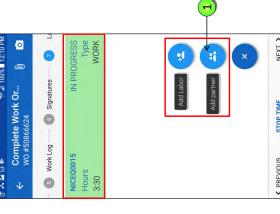
STOP TIME

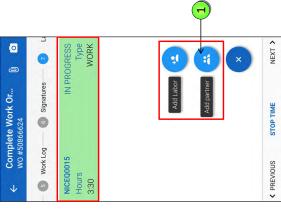
Additional Laborer to add as a contributor to this Work Order. Select the name of an

Search for your helper either by typing his badge ID or by first and last name.

Tap on the selected name to add the laborer name to the Work Order. (H)









Handheld informer Work Management Training – Mold Inspection

Page 149

Reviewing and Adding Additional Labor Add Labor ધ to add a helper

Add Partner 🙁 if you and your helper have identical work time that has a different work time duration.

duration.

must tap the Add Partner :: icon while the timer is still running and the record is in NOTE: To add a partner you

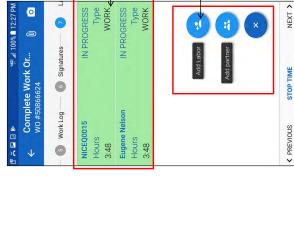
Tap Add Partner 🙁 green color.

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Notice the Labor Record for you,

colored green, and have an and your partner are both

identical time duration.

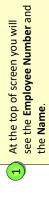


To add an additional helper, that

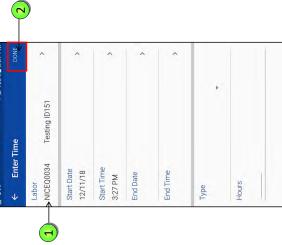
contributed some labor to this has a different work time, and

Work Order, tap the Plus icon

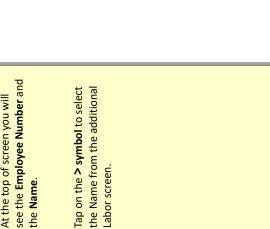
and tap Add Labor. 😣

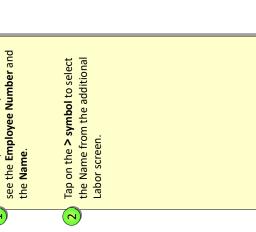


Additional Labor - (Continued)



the Name from the additional Tap on the > symbol to select Labor screen.

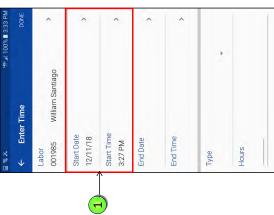








dandheld informer Work Management Training – Mold Inspection



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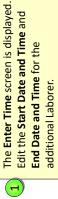
Handheld informer Work Management Training – Mold Inspectior

Page 153

STOP TIME

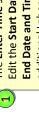
< PREVIOUS





Make sure the Start Date and Start Time are accurate. When you first were on the screen, it started you out at the present time, not the time the work was started.

adjusting and making sure that the Date and End Time, without first NOTE: You CANNOT click on End Start Time is at least 1 minute oefore End Time.



Additional Laborer to add as a contributor to this Work Order.

Select the name of the

(-)

Additional Labor

by typing your helper's badge

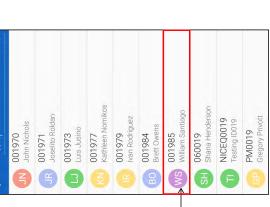
ID, or by first and last name.

Tap on the selected name, to add the laborer name to the

Work Order.

Search for your helper, either









Page 155









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Handheld informer Work Management Training – Mold Inspection

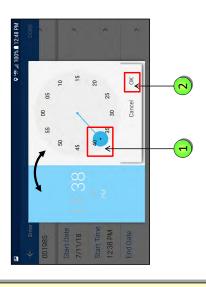
Page 156

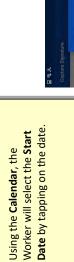
*The clock will always start at the present time. Make sure to select the correct time when you really started.

hour, and the minute by moving the Start Time by tapping on the Using the clock, you can select the blue circle to the right or left accordingly. Then tap on

In this example, the user selected 11:38 am

Tap on **OK** to confirm the time.





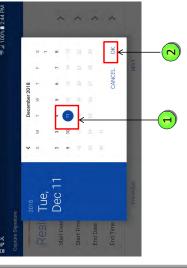
Additional Labor - (Continued)

selected December 11th, 2018.

In this example, the user

Height

Tap OK to confirm the date. 7





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EXTGENERATION NYCH,

Handheld informer Work Management Training – Mold Inspection

Additional Labor - (Continued)

100% 3:42

Enter Time

Page 158





Additional Labor - (Continued)

The Type field window selection appears, select the appropriate Labor Type.

William Santiago

001985

the work ended for the additional

Laborer.

adjust them accordingly to when

Tap End Date and End Time and

Start Time

2:00 PM End Date 12/11/18

12/11/18

Tap on the Type field to select the

Labor Type.

[1]

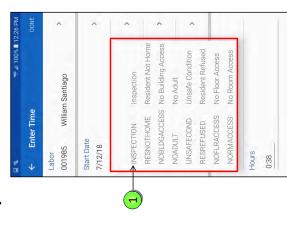
End Time

3:00 PM

lype

Hours 1:00

the primary laborer's type of labor record Type is required to match performed, i.e., INSPECTION, or For all Work Orders, the Labor UNSAFE CONDITION.



(1)

Tap INSPECTION

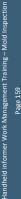


MEXICAL PART EX PLANT OF THE PROPERTY OF THE P

Handheld informer Work Management Training – Mold Inspection

Page 160

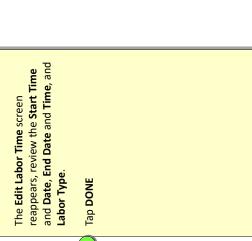
MEXTGENERATION NYCHA



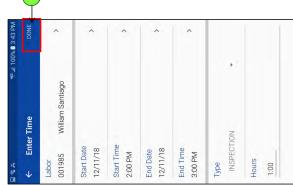
AM/PM field to select the

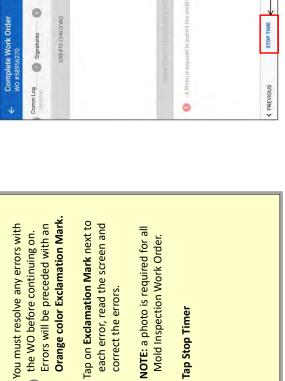
desired time.

Submit The Inspection Work Order

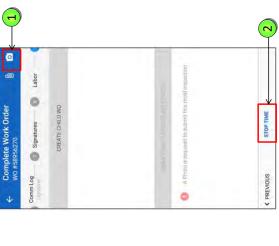


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(2)





If you want to a Create Child WO for an issue other than MOLD, tap on

CREATE CHILD WO gray bar.

When all the errors are corrected,

7

you can click the **SUBMIT INSP/ UPDATE WO STATUS** gray bar.

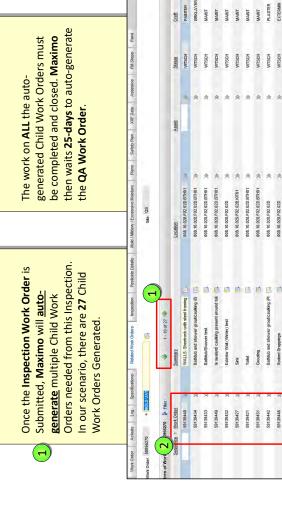


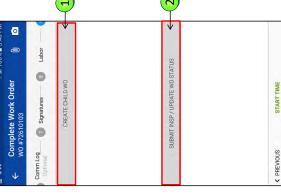
A STATE OF THE STA

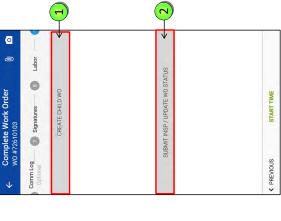


Handheld informer Work Management Training – Mold Inspection

Page 162









December 2018

pg. 192 Rev. 4-26-22











iWM Mobile Application Training - Agenda

Please be back in an hour!





Next Module: Mold Inspection Work Flow Exercises

Page 166

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OUR VISION FOR EXTGENERATION NYCH/

iWM Mobile Application Training - Agenda

9. Conclusion: FAQs, Pet Policy, Kit Overview, Class Evaluation Form

7. Demonstration: End to End Re-Inspection Work Flow

8. Mold Inspection Work Order Exercises

5. Demonstration: End to End QA Inspection Work Order

NYCHA Mold Inspection Student Handouts

4. Follow Along: End to End Mold Inspection Work Flow

2. Sort, Search and Select WOs from Menu List

1. Welcome, Introductions, Overview

3. Demonstration: End to End Mold Inspection

6. Follow Along: End to End QA Inspection Work Flow











Handheld informer Work Management Training – Mold Inspection











OUR VISION FOR NEXT CENERAL MESSAGE AND MYCHA

9. Conclusion: FAQs, Pet Policy, Kit Overview, Class Evaluation Form

Rev. 4-26-22

NO Mold was Found...

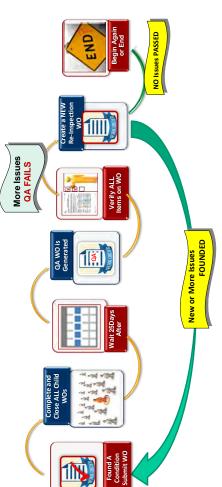
QA and Re-Inspection Work Order Workflow

Mold was Found...



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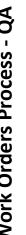
NYCHA Mold Inspection Student Handouts



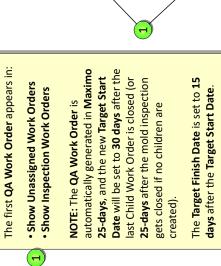


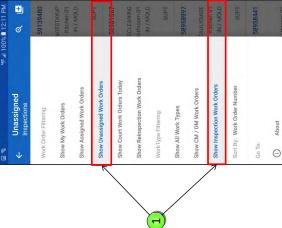
Different Paths for QA ...

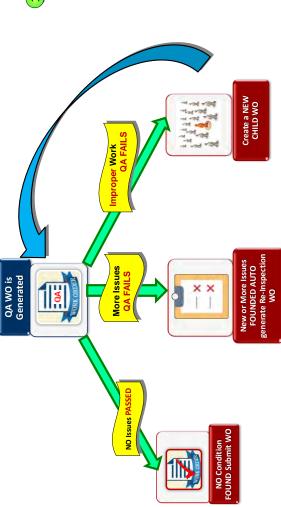




dandheld informer Work Management Training – Mold Inspection









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pg. 194 Rev. 4-26-22









Page 172



PART OF THE STATE OF THE STATE

If either Target Start Date or Target

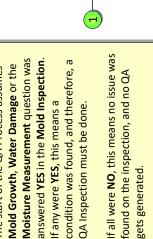
Finish Date fall on a weekend or a

holiday, then next business day.

View QA Work Order Details – (Continued)

auto-generated 25 days after the last The start of the QA Process assumes Remember the QA Work Orders are If any were YES, this means a QA Inspection must be done. gets generated.

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Tap START WORK TIME

~

Work Type = IN

F



Description – Mold QA Inspection

Child Work Order is closed.

View and Select Labor

the user is now ready to begin the work. START TIME is displayed at

the bottom of the screen.

Select Inspection

(-)

Tap NEXT

(7)

After reviewing the WO Details





Handheld informer Work Management Training – Mold Inspection Page 174



Ad hoc

Materials

Complete Work Order

008.03.007.F03.03A.KIT01

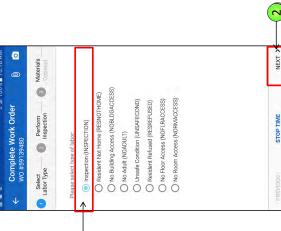
ecting Locatio

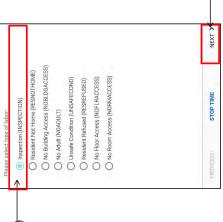
QA: Evaluation of Conditions

State: NONE Kitchen 01

QA: Evaluation of Conditions









Page 175













NEXT >

STOP TIME

< PREVIOUS

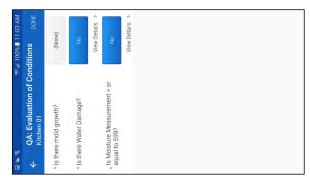
questions on the QA do not have to these questions, this triggers the process for Re-inspection as the If the user answers YES to any of QA has failed. The remaining be answered.

inspection Work Order once user submits their results on the QA. Maximo will generate a Re-

On the QA Work Order, the user

shall be asked: Mold Growth?

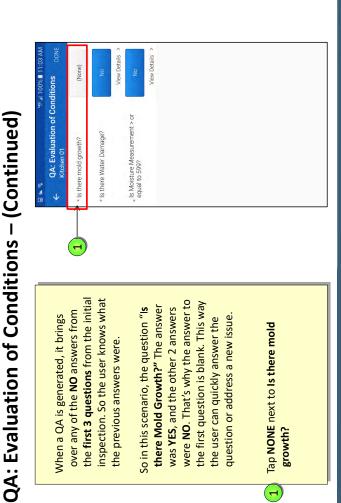
Moisture Measurement >= 599 Water Damage?



the first 3 questions from the initial inspection. So the user knows what over any of the NO answers from When a QA is generated, it brings the previous answers were.

were NO. That's why the answer to the first question is blank. This way So in this scenario, the question "Is there Mold Growth?" The answer was **YES**, and the other 2 answers question or address a new issue. the user can quickly answer the

Tap NONE next to Is there mold growth?



(T)

Handheld informer Work Management Training – Mold Inspection Page 178

NEXTGENERATION NYCH

QA: Evaluation of Conditions – (Continued)

 Height

Tap NONE next to the Exhaust Fan question.

QA: Evaluation of Conditions



Are all child work orders from the original inspection completed properly?

(None)

Is there an exhaust fan?

Is Moisture Measurement > or equal to 599?

Is there Water Damage'

Is there mold growth?

QA: Evaluation of Conditions – (Continued)

QA: Evaluation of Conditions Is there an exhaust fan? Is there Water Damage? Is there mold growth? Is Moisture Meas equal to 599? (None) ~

/iew Details Are all child work orders from the original inspection completed properly?

Maximo checks if the location of

7

bathroom or kitchen, as this drives logic for Exhaust Fan

question to show.

the QA Work Order was a

Measurement was found on the

If NO Mold Growth, Water

Damage or Moisture

Answer NO for "Is there Mold

(-)

Growth" question.

remaining questions on the QA

must be answered

QA Work Order, then the

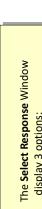
A A A A B A B A

OUR VISION FOR NEXT GENERAL MECHA

Handheld informer Work Management Training – Mold Inspection

Page 180

Handheld informer Work Management Training – Mold Inspection



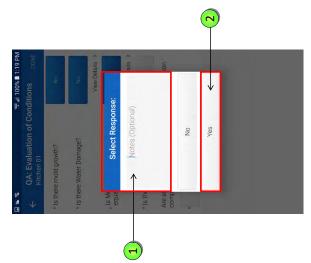
- Notes (optional) display 3 options:
 - å
- In the Notes field, the user can input free text information.

Tap YES

7 Environmental Education Associates, Inc.

NYCHA Mold Inspection Student Handouts

Maximo doesn't auto-generate a Work Order for the Roof fan. NOTE: if the answer is YES,



exhaust vent in the appropriate field. The Supervisor shall enter the CFMs (Cubic Feet Measurement) at the

CFM's measured at face of exhaust vent

Notes

8

Followup Info

QA: Evaluation of Conditions – (Continued)

The CFM's measurement is a mandatory field.

- Type 26 on the device keyboard.
- Tap DONE on the device keyboard.

7 m

The Notes field is optional.

Work Order to check the roof fan. Maximo will not auto-generate a NOTE: If CFM is less than (<25),



0

Done ×

4

3 9

2 5 ∞

Tap DONE 4

Handheld informer Work Management Training – Mold Inspectior Page 182

NEXTGENERATION NYCH

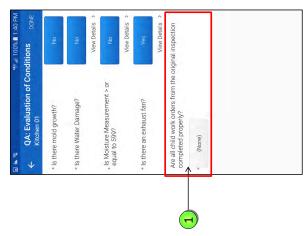


QA: Evaluation of Conditions – (Continued)

All Children Work Orders from the original inspection were completed properly: If the answer is NO, the user shall be mandated to create a Child Work Order off the QA Work Order.

This is to ensure the remaining Users can create multiple underlying issue is fixed. Children Work Orders.

step 1 as this triggers a new QA completed by the responsible Work Order to get generated. party. The process returns to The Child Work Order(s) are





Handheld informer Work Management Training – Mold Inspectior

Page 181

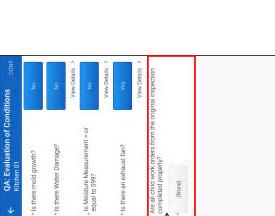
December 2018

Measurement was found on the answer the question verifying if "All children Work Orders from QA Work Order, the user must the original inspection were If NO Mold Growth, Water Damage or Moisture completed properly."

(1)

If YES, the QA Work Order has passed and the process is complete. If NO, the QA Work Order fails Orders were not completed because the children Work

pg. 197 Rev. 4-26-22



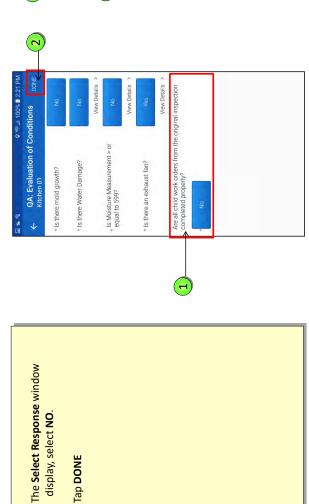


Page 184

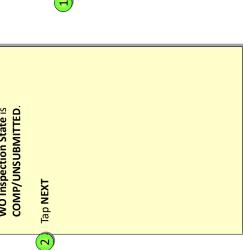
display, select NO.

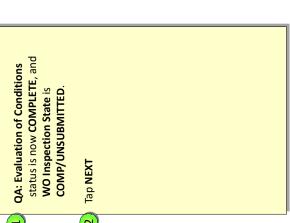
Tap DONE





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Handheld informer Work Management Training – Mold Inspectior

Page 185



dandheld informer Work Management Training – Mold Inspectior Page 186



QA: Complete Work Order

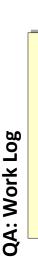
Complete the QA: Work Order by • Materials: (Optional) - record any Materials used from the completing the steps below:

(1)

- Storeroom.
- apartment not related to Mold Ad Hoc Insp: (Optional) – record any findings in the Issue.



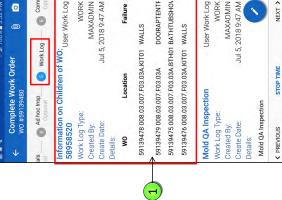




were created and completed for this different Child Work Orders that Work Log now contains all the Mold Inspection.

done, check the quality of work, and The Supervisor can check what was what was reported as an issue.

create another Child Work to fix the reported issues were not resolved standards then, then Super can If the Supervisor finds that the correctly that meets NYCHA problem. In this case, the process starts again.











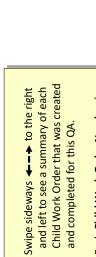


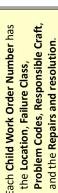


NEXTGENERATION NYCHA

Page 188

QA: Work Log – (Continued)





each closed and completed Work The user can view the details for Order in Maximo desktop.

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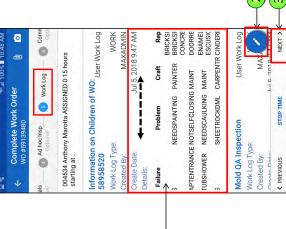
NYCHA Mold Inspection Student Handouts

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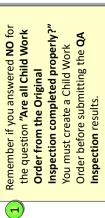
more information of your findings. Tap the **pencil** (V) icon to add

Tap NEXT

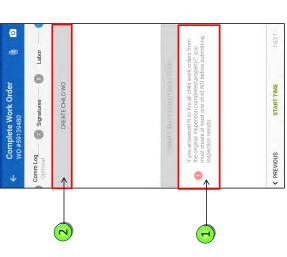


Complete the process as before in the Mold Inspection for Comm Log, Signatures, and Labor screens.

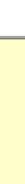
QA: Submitting The Work Order – (Continued)



gray bar and follow the instruction for creating a Child or Parent Work In this case, tap CREATE CHILD WO Order.



(7)



Handheld informer Work Management Training – Mold Inspectior Page 190

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EXTGENERATION NYCH

Handheld informer Work Management Training – Mold Inspection

Page 189

December 2018

QA: Submit The Work Order

If you want to a Create Child WO for

an issue other than mold, tap on

 H

CREATE CHILD WO gray bar.

When all the errors are corrected,

(7)

you can click the **SUBMIT INSP/ UPDATE WO STATUS** gray bar.



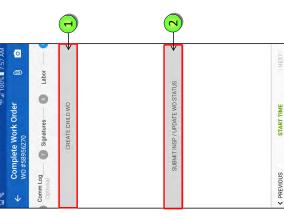
QA: Different Paths

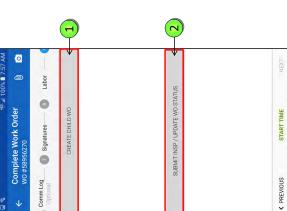
There are 3 paths for a QA Work Order: FIRST QA can pass. This will close the original inspection WO

moisture measurement is answered SECOND QA can fail immediately if would immediately AUTO-generate YES (I.e., big issues still exist). This a REINSPECTION WO (parent WO) mold growth, water damage or upon submission.

children are done, it will generate When Re-Inspection WO and its another QA.

















Page 192

NEXTGENERATION NYCHA

iWM Mobile Application Training - Agenda

QA: Different Paths – (Continued)

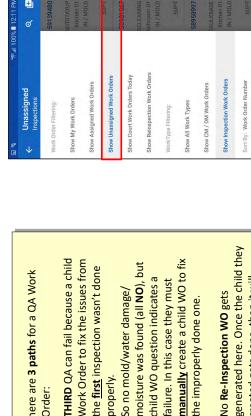
THIRD QA can fail because a child

There are 3 paths for a QA Work

Work Order to fix the issues from

the first inspection wasn't done

properly.



So no mold/water damage/ moisture was found (all **NO**), but

child WO question indicates a

failure. In this case they must

•	 1. Welcome, Introductions, Overview 	>C	Hoseinned	100%
•	 2. Sort, Search and Select WOs from Menu List 		All SOUTH JAMAICA I	
	3. Demonstration: End to End Mold Inspection		TOILET 008.01.003.F02.02D.BTH01 Reported - 06/21/18	WATE
•	Work Flow		DEV008	
•	 4. Follow Along: End to End Mold Inspection Work Flow 	0	SOUTH JAMAICA I 107-04 159TH STREET WINDOWGLASS 008.03.007.F02.028.KIT01	WILLN
•	5. Demonstration: End to End QA Inspection Work Order		Reported - 06/21/18 DEV008	
	6. Follow Along: End to End QA Inspection Work Flow	0	SOUTH JAMMAICA I 107-04 159TH STREET EXTERMINATION 008.03.007,F02.02B	
A	> 7. Demonstration: End to End Re-Inspection Work Flow		Reported - Ub/21/18 QSEXT QSEXT	
•	8. Mold Inspection Work Order Exercises	0	107-04-159TH STREET CEILING 008.03.007.F02.028.KIT01	NEEDS

58955835 Inscheduled VOTSTAYUP Kitchen 01 CM / MOLD

Page 193

About 0 End to End Mold QA Work Flow - Summary

You have completed the module!

Please take a break!

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dandheld informer Work Management Training – Mold Inspectior Page 194

9. Conclusion: FAQs, Pet Policy, Kit Overview, Class Evaluation Form



Re-Inspection









Next Module: Demonstration: End to End Mold Re-Inspection Work Flow Handheld informer Work Management Training – Mold Inspection

manually create a child WO to fix

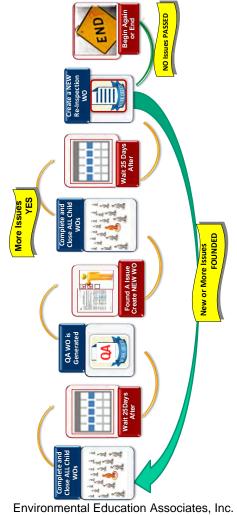
the improperly done one.

created gets done, then it will

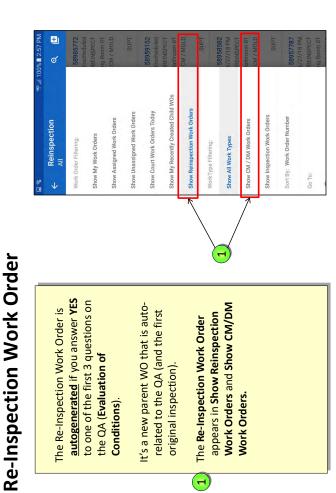
generate another QA.

No Re-Inspection WO gets

Mold was Found...



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It's a new parent WO that is auto-

related to the QA (and the first

original inspection).

The Re-Inspection Work Order is

the QA (Evaluation of

Conditions).

Work Orders and Show CM/DM

Work Orders.

appears in Show Reinspection

The Re-Inspection Work Order



Re-Inspection Work Order Details



Handheld informer Work Management Training – Mold Inspection Page 198



Re-Inspection Work Order



WO# 58959152

The Work Order Type and Job Plan have changed in Mold QA as they

appear on the screen.



Problem Code = MILDEWREINSPECT Failure Class = MILDEWCONDITION

Tap START WORK TIME

pg. 201 Rev. 4-26-22

Job Plan# = INSMOLDRE Sub-Work Type = MOLD

Work Type = CM



















Re-Inspection: Evaluation of Conditions

The Re-Inspection will follow the

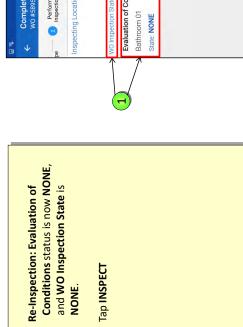
same logic/rules as the original

inspection. If an issue is found,

another QA will be generated

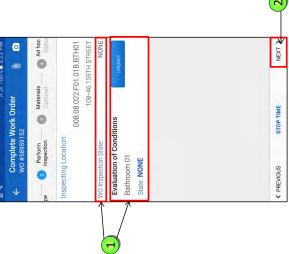
after the Re-Inspection and its

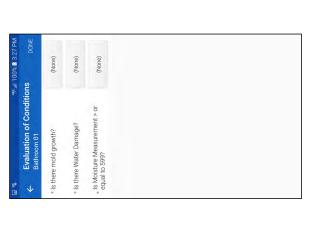
children are completed.



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reoccurrence, as it just means the

original issue/incident was not

properly resolved.

Order shall not be considered a

A Re-Inspection that is generated

based on results from a QA Work







Handheld informer Work Management Training – Mold Inspection Page 202 Re-Inspection: Completing The Work Order – (Continued)



If as a result of the Re-Inspection

Maximo auto-generates new Child there was a new issue, then Work Orders.

The work has to be completed on all the new Child Work Orders. Maximo will auto-generate a new closing all the new Child Work QA Work Order 5-days after

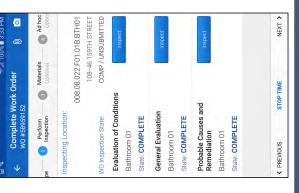
beginning of this Reference Guide. Refer to the information at the



Re-Inspection: Completing The Work Order

The Re-Inspection will follow the same logic/rules as the original after the Re-Inspection and its inspection. If an issue is found, another QA will be generated children are completed.

reoccurrence, as it just means the A Re-Inspection that is generated based on results from a QA Work Order shall not be considered a original issue/incident was not properly resolved.





Page 204

NEXT >

STOP TIME

< PREVIOUS

You have completed the module!

Please take a break!



Next Module: Follow Along: End to End Mold Inspection Work Flow

Creating Child and Parent Work Orders Manually

Instruction to create a Child and Parent Work Orders **NOT related to Mold**



Create a Child Work Order

Parent Work Order Number

(-)

Default Location





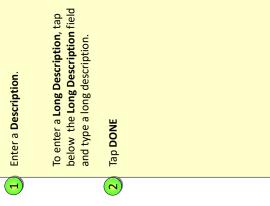
dandheld informer Work Management Training – Mold Inspection Page 206



Creating the Child Work Order - (Continued)

Create Child Work Order

Parent Work Order 58957603



Location 008.01.003.F03.03A.KIT01

0

Asset Please select...

0

Work Type Please select...

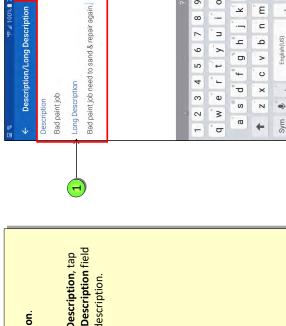
Sub Work Type Please select...

0

Failure Class Please select..

0

Enter description







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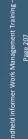
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Handheld informer Work Management Training – Mold Inspection

pg. 204 Rev. 4-26-22





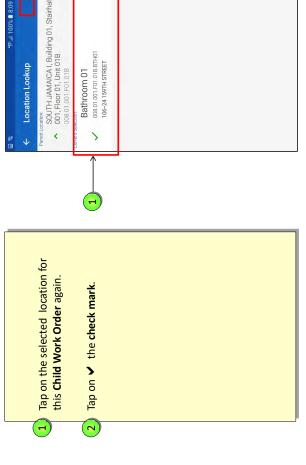


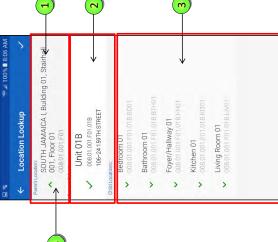
Please select.

0



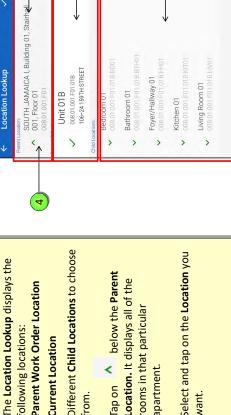
Page 210







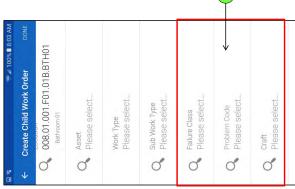






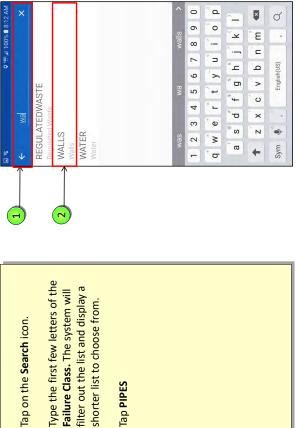
Add selections for each of

Problem Code Tap Failure Class **Failure Class** these fields: Craft



Tap PIPES

7





Creating the Child Work Order - (Continued)

Select and tap Problem Code.

-



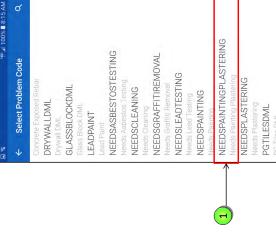




Creating the Child Work Order - (Continued)











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Handheld informer Work Management Training – Mold Inspection

Page 216





Submitting the Work Order – (Continued)

dandheld informer Work Management Training – Mold Inspection

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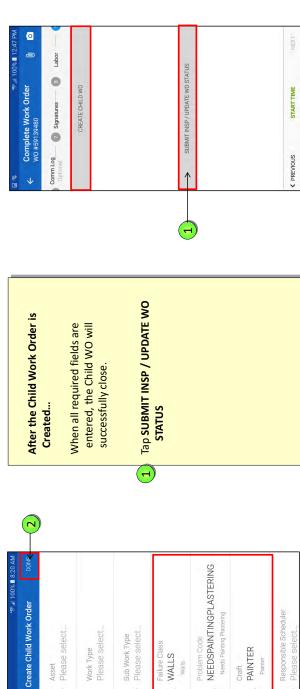
OUR VISION FOR
NEXTGENERATION NYCHA

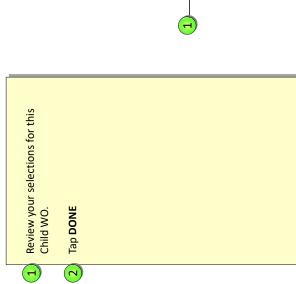
Handheld informer Work Management Training – Mold Inspection

Page 217

Creating the Child Work Order – (Continued)

Page 218





Work Type Please select...

Sub Work Type Please select...

0

Failure Class WALLS

0

0

Asset Please select...



Responsible Scheduler

0

Craft PAINTER

0

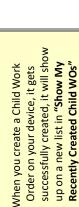
NEXTGENERATION WYCHA

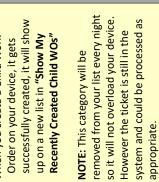
Page 220

NEXTGENERAL ON YOCHA

Page 219



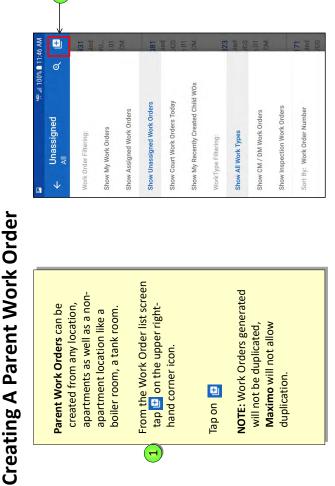




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From the Work Order list screen tap 🕒 on the upper right-

(-)

hand corner icon.

apartments as well as a non-

boiler room, a tank room. apartment location like a

created from any location,

Parent Work Orders can be

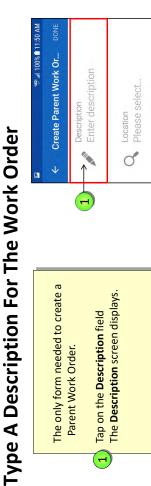
NOTE: Work Orders generated

Fap on 🖽

Maximo will not allow will not be duplicated,

duplication.





The only form needed to create a

Parent Work Order.

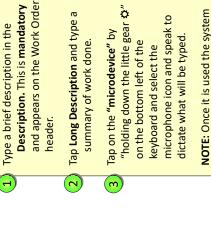
Tap on the Description field

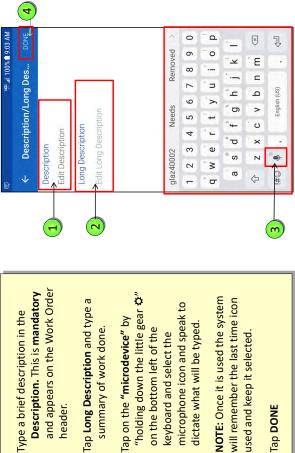
Type A Description For The Work Order – (Continued)

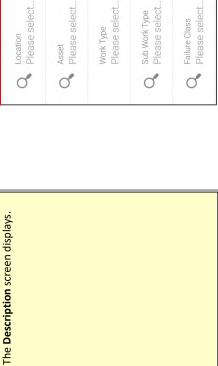
Handheld informer Work Management Training – Mold Inspection

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Page 222







pg. 207 Rev. 4-26-22

Please select.

Work Type





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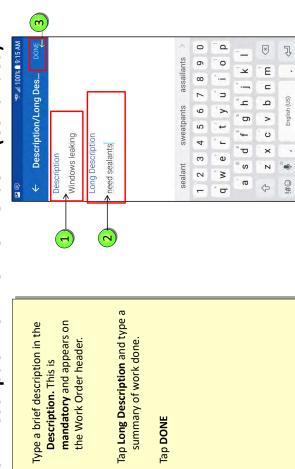




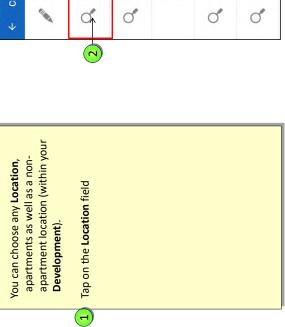
used and keep it selected.

Tap DONE

4











Handheld informer Work Management Training – Mold Inspection

Page 225

December 2018



Handheld informer Work Management Training – Mold Inspectior Page 226



Choosing A Location - (Continued)

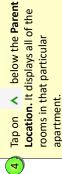


select the appropriate location by

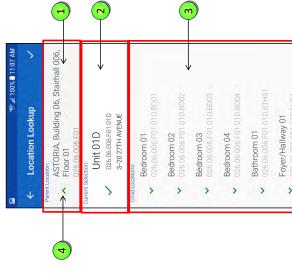
one of the following methods:

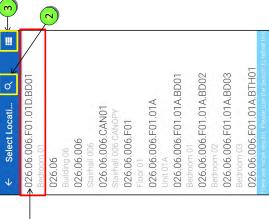
The default Location appears on

the top of the screen. You can



Select and tap on the Location you





Tap on Location Lookup button 🔢

8

and select the desired Location.

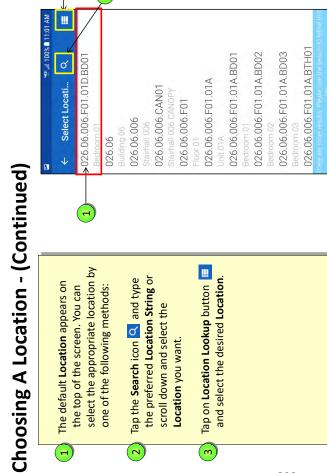
the preferred Location String or

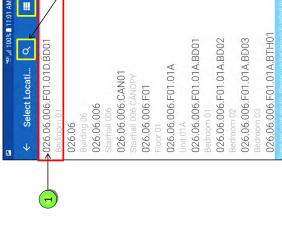
scroll down and select the

Location you want.

Tap the **Search** icon Q and type

(7)













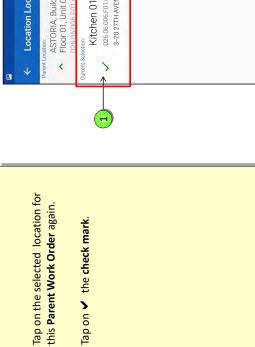


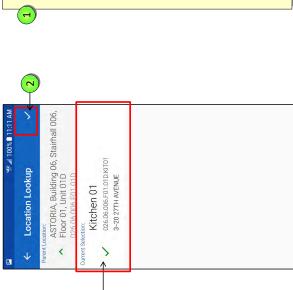


NEXTGENERATION NYCHA

Choosing A Location - (Continued)

(-)

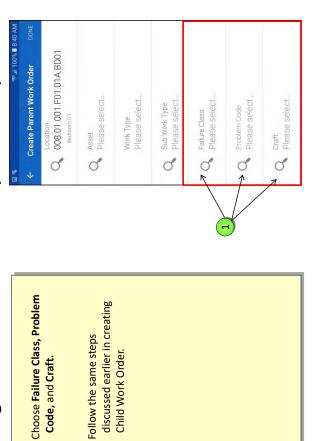




Follow the same steps

Code, and Craft.

Child Work Order.







Handheld informer Work Management Training – Mold Inspection

Page 229

December 2018





008.01.001.F01.01A.BD01 **Create Parent Work Order**

Review all of the Parent Work

1

Order information.

Tap DONE

7

Asset Please select...

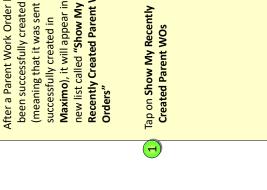
0

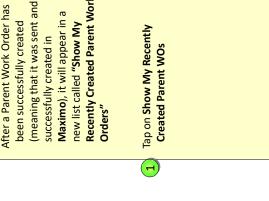
NOTE: Work Orders generated

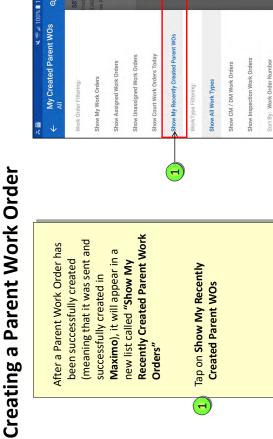
Maximo will not allow will not be duplicated,

duplication

Work Type Please select...











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Handheld informer Work Management Training – Mold Inspection

Page 232

About

0

Problem Code HARDTOOPENCLOSE

0

Craft GLAZIER

0

Failure Class WINDOWGLASS

0

Sub Work Type Please select...

0

Failure Class, Problem Code created for same Location, Any Duplication cannot be

iWM Mobile Application Training - Agenda

1. Welcome, Introductions, Overview

Work Flow

444 9. Conclusion: FAQs, Pet Policy, Kit Overview, Class Evaluation Form 0 0 5. Demonstration: End to End QA Inspection Work Order 4. Follow Along: End to End Mold Inspection Work Flow 7. Demonstration: End to End Re-Inspection Work Flow 6. Follow Along: End to End QA Inspection Work Flow 2. Sort, Search and Select WOs from Menu List 3. Demonstration: End to End Mold Inspection 8. Mold Inspection Work Order Exercises

EXTGENERATION NYCH End to End Mold Inspection Work Flow - Summary Handheld informer Work Management Training – Mold Inspectior Page 233 December 2018

You have completed the module!



Next Module: Follow Along: End to End Mold Inspection Work Flow

iWM Mobile Application Training - Agenda

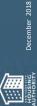
EXTGENERATION NYCH

dandheld informer Work Management Training – Mold Inspection

Page 234



9. Conclusion: FAQs, Pet Policy, Kit Overview, Class Evaluation Form











Log in to the device

After completing this module, you should be able to:

- Update device software
- Access Password app to change Network ID password
- Compose and send email with attachment
- Update to new version of the iWM App

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- Troubleshoot Outages to Verizon, Maximo, and the Internet
- Know where to go for Help and Support

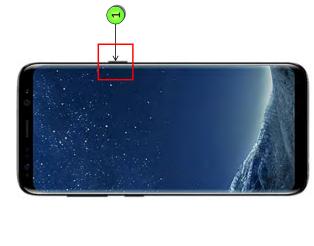


Enter the default password

for the Device:

nycha90

Press Power/Lock Button



Handheld informer Work Management Training – Mold Inspection

Page 237

Indicator Icons and Wildcard

Indicator icons appear on the Status Bar at the top of the

Here are some of the most common icons and their

device screen.

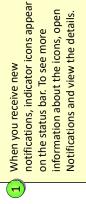




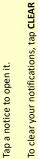
Handheld informer Work Management Training – Mold Inspectior Page 238



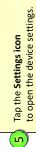
Notifications and Settings

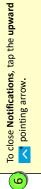


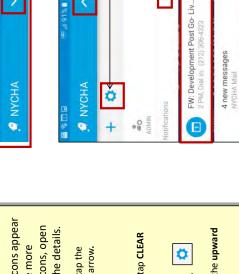




(8)







■%16	K								
6 Figh		Meaning	No Signal	Signal Strength	Network Indicator	Call in progress	Missed call	Emergency alert	Battery Power Level
- & & 		Icon	0	F	4G / LTE	ر	»(4	-

displayed when searching,

enter part of the item

If the item does not get

meaning.

description followed by %

pg. 211 Rev. 4-26-22





















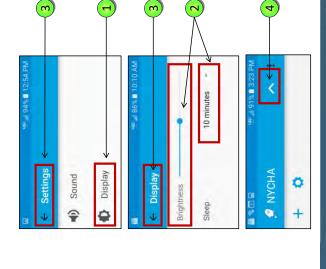
Handheld informer Work Management Training – Mold Inspection

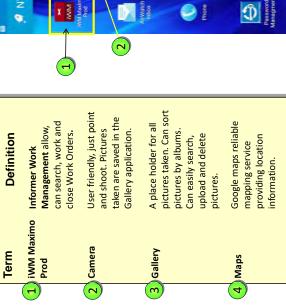
PAR AT IN THE STATE OF THE STAT

Display Settings

to open the

tap the **black arrow** \leftarrow on the Display Settings for the device. screen stays on before it 'goes These include a sliding control down control for Sleep to set the number of minutes your To go to the previous screen, To close out of Settings and for Brightness, and a drop-Tap the Display icon to sleep' and locks. Display Header. Environmental Education Associates, Inc. NYCHA Mold Inspection Student Handouts









Notifications, tap the UPWARD

> pointing arrow.



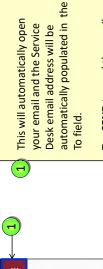


Page 242





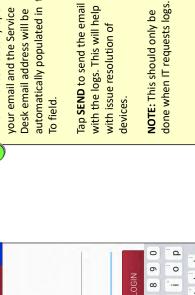
Communicating with the Help Desk - (continued)

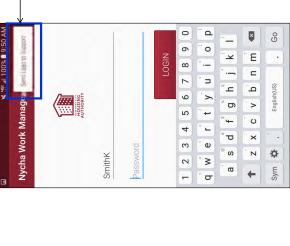


Desk by sending your logs. Mobile Easily communicate with the Help

send logs to a public location for

AirWatch.







screen, tapping the three dots

on the top right corner and

selecting Send Logs.

(when requested by help desk) easily by going to the app Login

You can now send device logs

H









Handheld informer Work Management Training – Mold Inspection

Troubleshooting - About

If there is a problem with your device,

Application may help the Help Desk

the information in About This

Associate in troubleshooting your

issue including:

	Date and Time the Date was	a Last Fetched - Displays the last	currently in your Queue.	ut - Provides confirmation of	Troubleshoot your Device.	list are 3 Items that may help to	Show Assigned Work Orders Show Court Work Orders Today WorkType Filtering: Show All Work Types Show All Work Types Show Inspection Work Orders	The Menu is displayed. Near the bottom of the Home Screen list are 3 Items that may help to Troubleshoot your Device. About - Provides confirmation of which version of iWM your device is using. Queue Management - Lists Items currently in your Queue. Data Last Fetched - Displays the last
ast				ce is	About - Provides confirmation of worktype Filtering: which version of iWM your device is using.	ce is	Show Inspection Work Orders	ue Management - Lists Items
		s Items		ce is	ce is	ce is	Show CM / DM Work Orders	·8:
							Show All Work Types	ich version of iWM your device is
							Show Assigned Work Orders	the bottom of the Home Screen
		ee is						Menu is displayed.

Environmental Education Associates, Inc. NYCHA Mold Inspection Student Handouts

Tap on About

₩ 19 M 99 M 2:32 PM	± 1	56058803 1/19/18 AM	LFCLOSING Unit 04A	CM	MAINT	53565756 inscheduled	Building 20	S C	VENDOR	53624092 inscheduled	LIGHTOOD 67 GROIT	CIM	VENDOR	54896004
	Unassigned All	Nork Orders	d Work Orders	k Orders Today	:Bu	ypes	Vork Orders	Work Orders			7	Queue Management		Fetched 02/01/18 14:32:06
	← Unas	Show Assigned Work Orders	Show Unassigned Work Orders	Show Court Work Orders Today	WorkType Filtering:	Show All Work Types	Show CM / DM Work Orders	Show Inspection Work Orders	Sort By: Priority	Go To:	(i) About	Onene l	₩ Log Out	Data Last Fetched

What Version of iWM your device is

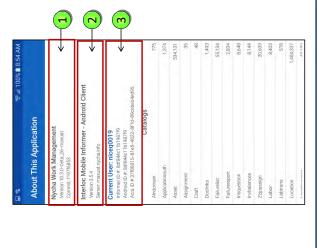
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Your Server connection

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Troubleshooting - Queue Management



pg. 213 Rev. 4-26-22





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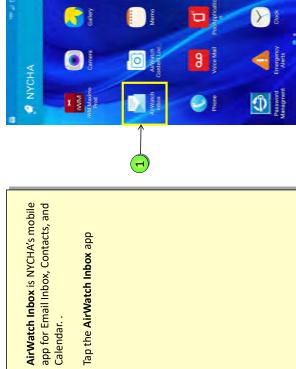
Page 245

December 2018

Tap on backward arrow to go to

Main Menu

Page 246



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Airwardh Browner

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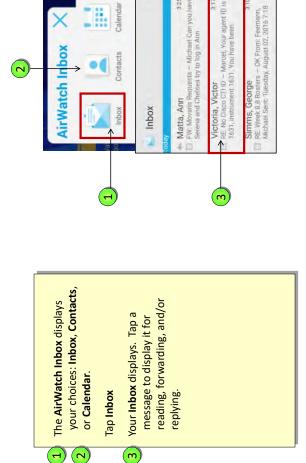


Handheld informer Work Management Training – Mold Inspection

Page 247

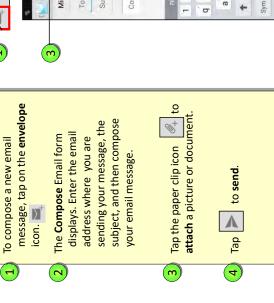
December 2018

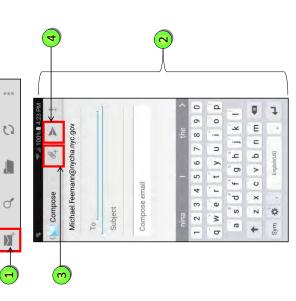
Composing an email message



Environmental Education Associates, Inc.

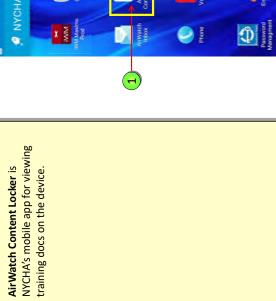
NYCHA Mold Inspection Student Handouts



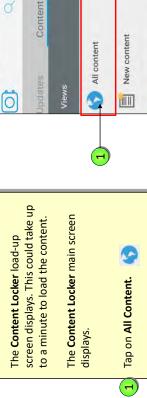




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Accessing the Content Locker – (Continued)

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Handheld informer Work Management Training – Mold Inspectior

Page 249

Page 250





Handheld informer Work Management Training – Mold Inspection

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pg. 214 Rev. 4-26-22 Page 251















The All Content screen displays all

the uploaded documents on the

device.

Slide your finger up and down

until you find the desired

document, for example iWM

Maintenance Master.

or P will be visible (see images on document, icons with the letter S Depending on the format of the

(1)

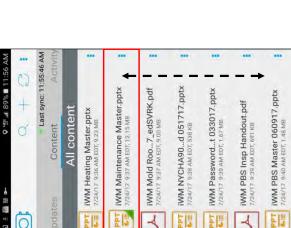
the right).

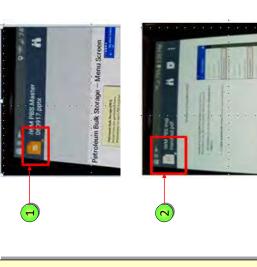
those icons S or P on the upper

To Close a document, tap on

(7)













Handheld informer Work Management Training – Mold Inspectior

Page 253

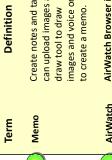
December 2018



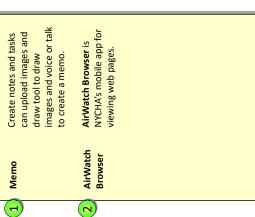




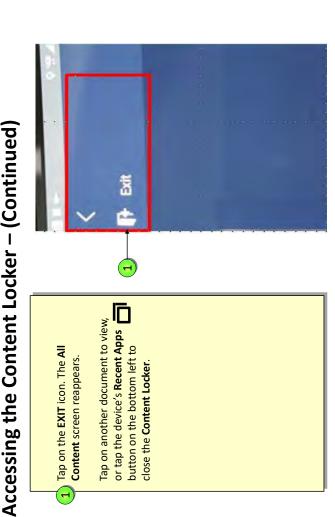
● NYCHA







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or tap the device's **Recent Apps**

button on the bottom left to

close the Content Locker.

Tap on another document to view,

Tap on the EXIT icon. The All

Content screen reappears.







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Handheld informer Work Management Training – Mold Inspection

Page 256

Panaganan





Tap on the iWM Maintenance

Master document to view.

AirWatch Browser App, Home Page, and Controls

Tap the AirWatch Browser App

to view NYCHA-approved web

number in the tab icon shows

the number of open tabs.

Browser Tab indicator. The

(7)

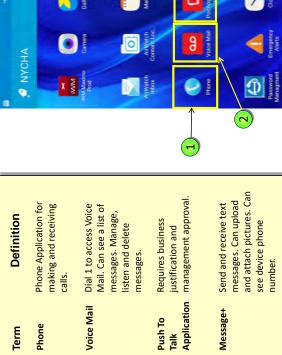
control to view the browser's

tools.

Tap the AirWatch Browser

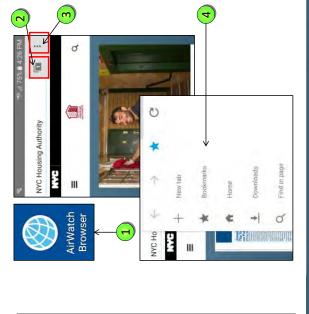
m

Basic Terms – (Continued)



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Switching Between Apps and Closing Apps





Handheld informer Work Management Training – Mold Inspection Page 258

browse, view/add bookmarks,

and search for content.

tools to add a new tab to

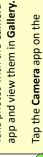
Use the AirWatch Browser's

4

4



Camera/Gallery (not within the iWM App)



screen where the Camera should Tap the image on the preview

Home screen.

- Work Managem

icon (left of the Home button)

screen, tap the Recent Apps

open apps, on the Home

To display a stack of currently

bottom of the screen to take the Tap the Camera icon at the (x)

41-15 VERNON BLVD ated - Jul 1, 2016

Browse Ë

To close one app, tap and drag

a Recent App window to the

Tap the app you want to use.

Swipe UP or DOWN to scroll through all the open apps. left or right, or tap the X in the

ight corner.

pg. 216 Rev. 4-26-22

To close all running apps, tap

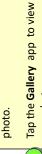
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CLOSE ALL.

your photo. 4

people without their permission. Do not take photos of other Camera Etiquette:











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CLOSE ALL







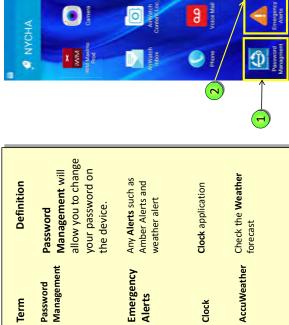




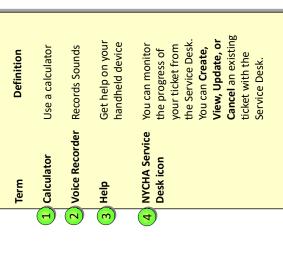


Handheld informer Work Management Training – Mold Inspection





NYCHA Mold Inspection Student Handouts



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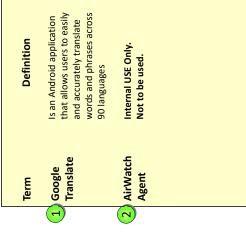




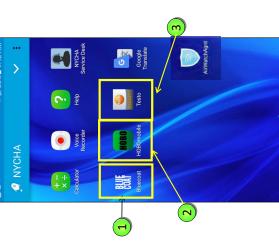
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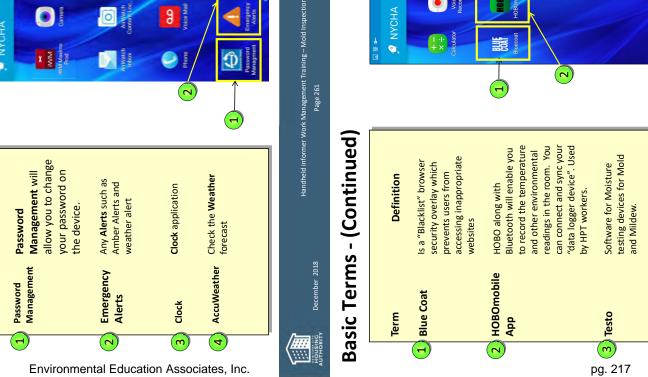
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Page 262











December 2018

Rev. 4-26-22











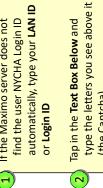


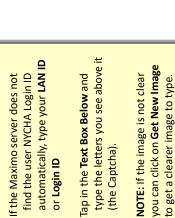


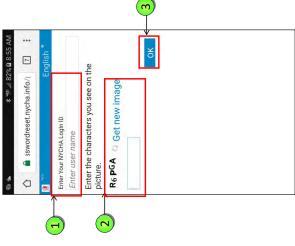
Page 264

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Update your password - (Continued)

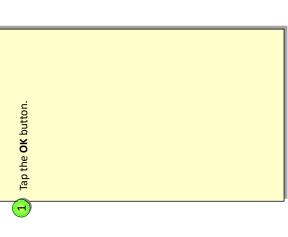


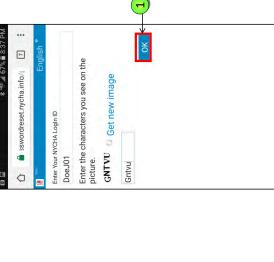




Click **OK**

Environmental Education Associates, Inc. NYCHA Mold Inspection Student Handouts









Troubleshooting - Taking a Screenshot - (continued)

You now have the Screenshot image in your Gallery.

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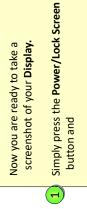
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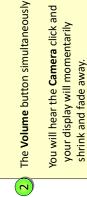
Handheld informer Work Management Training – Mold Inspection

Page 265

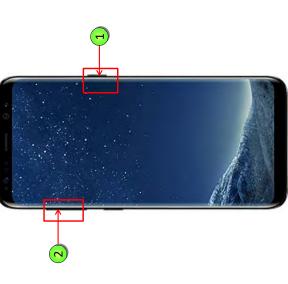


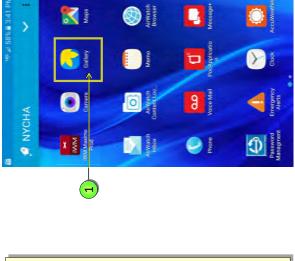
Troubleshooting - Taking a Screenshot





Screenshot of your current display. You have successfully taken a





















Troubleshooting - Contacting the Service Center

Tap on the screenshot image that was just taken.







The best method to contact The Service Center is by tapping on icon NYCHA Service Desk icon on your device.

NYCHA Service Desk

You can Create, View, Update, or Cancel an existing ticket with the Service Desk.

You can monitor the progress of your ticket from the Service Desk.





Handheld informer Work Management Training – Mold Inspection

Troubleshooting - Contacting the Service Center

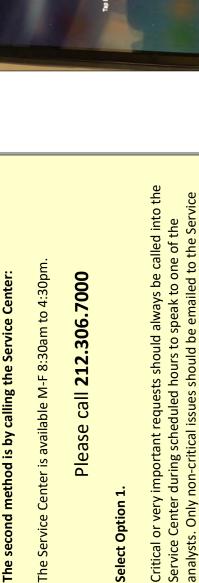
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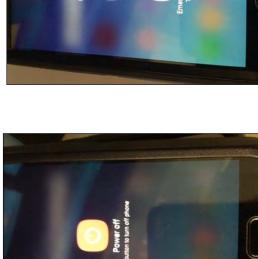
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Page 270



Power Off The Device











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Center.

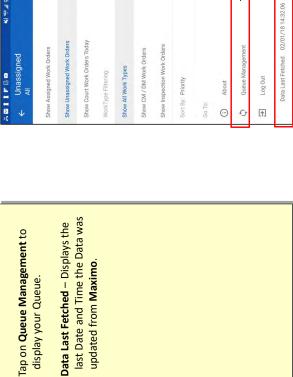
Select Option 1.

currently in QUEUE.

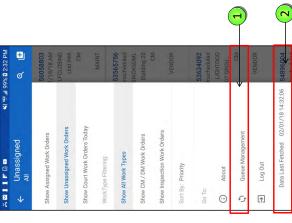
(H)

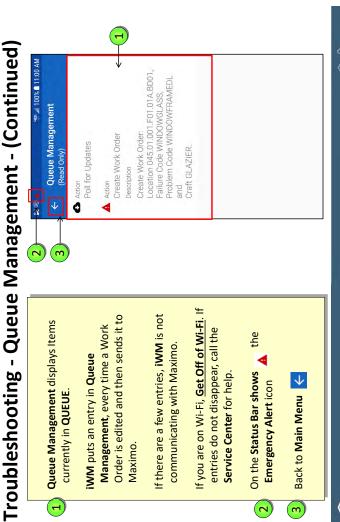
Maximo.

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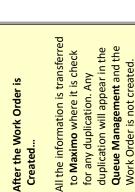
Environmental Education Associates, Inc. NYCHA Mold Inspection Student Handouts





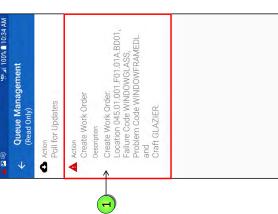
Errors After A Work Order Is Closed

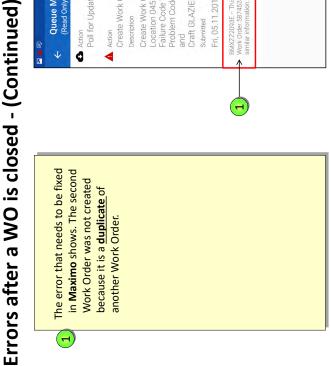
Page 273



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pg. 220 Rev. 4-26-22





53

Queue Management

Page 274

EXTGENERATION NYCH

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Poll for Updates

Action

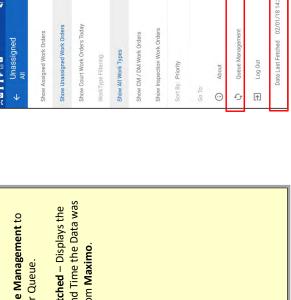
Action

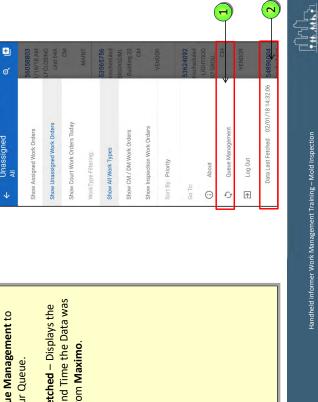
ocation 045.01.001.F01.01A.BD01, Failure Code WINDOWGLASS, Problem Code WINDOWFRAMEDL

Create Work Order: Create Work Order

Fri, 05.11.2018 at 10:34:38 AM

Craft GLAZIER.









Handheld informer Work Management Training – Mold Inspection











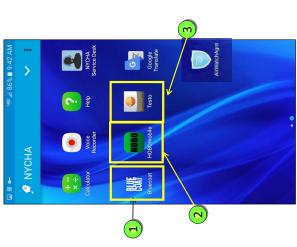
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Basic Terms - (Continued)

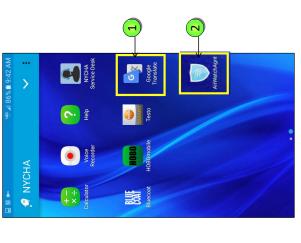
Term



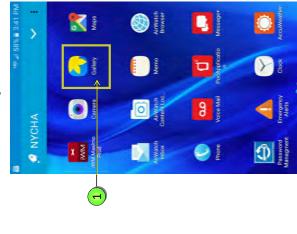
NYCHA Mold Inspection Student Handouts







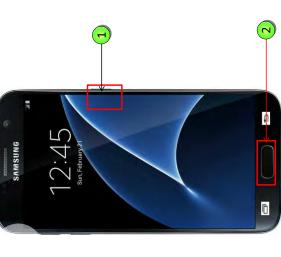


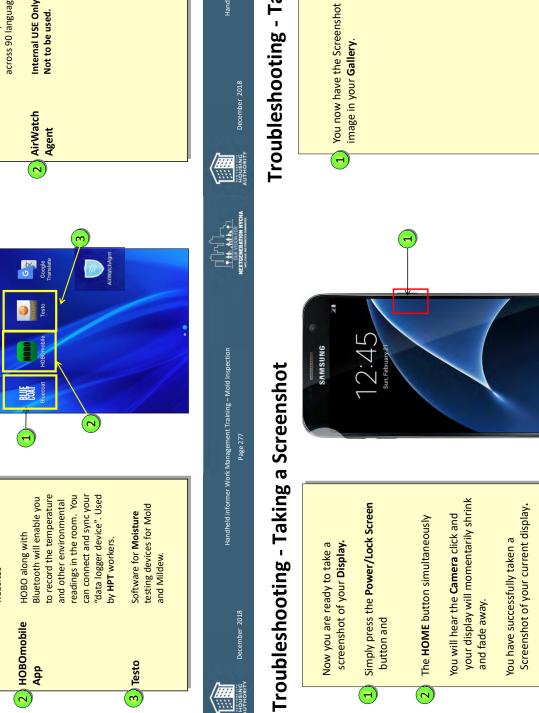


SAMSUNG Simply press the Power/Lock Screen You will hear the Camera click and The **HOME** button simultaneously screenshot of your Display. Now you are ready to take a button and

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NEXTGENERATION NYCHA

Handheld informer Work Management Training – Mold Inspection

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Handheld informer Work Management Training – Mold Inspection

Page 280

and fade away.

Answer the following statements as True or False:

For optimum performance update the iWM application when requested.

True or False

Expect total privacy of personal information and data when using a NYCHA device. 7

True or False

Environmental Education Associates

Every time your network password changes, your device's email password automatically changes. ന്

True or False

NYCHA Smart Device Policies

Limited Personal Use

- activities is prohibited. However, limited personal use is permitted if kept within reasonable bounds. Users are expected to exercise common sense personal use to ensure that it does not interfere with the performance of Using NYCHA PDD equipment for purposes unrelated to NYCHA business and good judgment when using NYCHA networks and other assets for their job duties.
- nor does it include any personal use that could have a negative impact on personal gain or for the promotion of any business other than NYCHA, Please note that "acceptable personal use" does not include use for NYCHA business systems and network performance.







NYCHA Smart Device Policies - (Continued)

The smart device that you have just received is the property of NYCHA and is solely for uses authorized by NYCHA;

- There is no reasonable expectation of privacy when using your **NYCHA** smart device
- Any information saved on any smart device owned by NYCHA is the property of NYCHA and may be subject to monitoring
- Unauthorized altering of or tampering with your NYCHA smart device is prohibited.

pg. 222

Rev. 4-26-22

Mobile Updates and Troubleshooting - Summary

You have completed this module!

Update device software

You should be able to:

Access Password app to change Network ID password

- Set up the email
- Update to new versions of the iWM App
- Troubleshoot Outages to Verizon, Maximo and the Internet
- Identify where to go for Help and Support













Handheld informer Work Management Training – Mold Inspection

You have completed this course!

Course Summary

You should be able to:

- Use the iWM application on your device
- Find and choose Work Orders
- Perform your work and edit the Work Order
- Create a QA and Re-Inspection Work Orders
- Create Parent and Child Work Orders
- Demonstrate your ability to complete a Work Order
- Troubleshoot basic device and application errors

Welcome, Introductions, Overview	× 8 0	*F. 100% 12:06 PM
	= Unassigned	± 1
Sort, Search and Select WOs from Menu List	SOUTH JAMAICA I 106:36 159TH STREET	58955838 Unscheduled
. Demonstration: End to End Mold Inspection Work Flow	TOILET 008.01.008.F02.02D.BTH01 Reported - 06/21/18 DEV008	WATERRUNNING Bathroom 01 CM / MOLD MAINT
Follow Along; End to End Mold Inspection Work Flow	SOUTH JAMAICA I 107-04 159TH STREET WINDOWGLASS 008.03.007.F02.028.KIT01	58955835 Unscheduled WILLNOTSTAYUP Kitchen 01
. Demonstration: End to End QA Inspection Work Order	Reported - 06/21/18 DEV008	CM / MOLD MAINT
Follow Along: End to End QA Inspection Work Flow	3 107-04 159TH STREET EXTERMINATION 008.03.007.F02.028	58955833 Unscheduled ROACHES Unit 028
Demonstration: End to End Re-Inspection Work Flow	QSEXT	EXTERMIN
. Mold Inspection Work Order Exercises	3 107-04-159TH STREET CEILING 008:03:007-F02:028-KIT01	58955832 Unscheduled NEEDSPAINTING Kitchen 01



Q & A Session



9. Conclusion: FAQs, Pet Policy, Kit Overview, Class Evaluation Form



Conclusion: Final Check List

☑Return NYCHA Policy Device Form Signed ✓ Class Evaluation Form















MOLD INSPECTION 2.0

MOLD INSPECTION 2.0

This document describes the process to check Maximo for the Child Work Orders and view the QA Inspection WO that gets generated, once the Mold Inspection Work Order is submitted.

Depending on the information gathered during Evaluation of Conditions, General Evaluation and Probable Causes and Remediation, Child Work Orders get created in the background to remedy those situations.

Five business days after all the Child Work Orders are closed, the QA Inspection Work Order gets auto-generated.

The following steps outline the process:

1. Log into Maximo (Log into the training instance of Maximo).

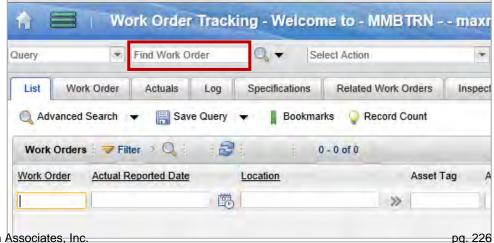
http://clamxt03:7070/maximo/ui/maximo.jsp

User ID: nices0XXX Password: pdt@2040

Click the Menu button.Go to Work Orders > Work Order Tracking

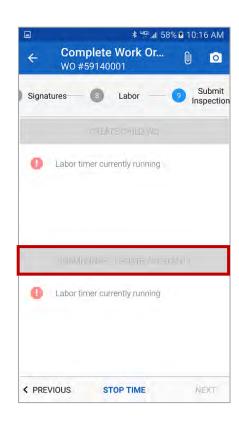


3. In the **Find Work Order** search text box, enter the Mold Inspection Work Order number. Hit the Enter key.

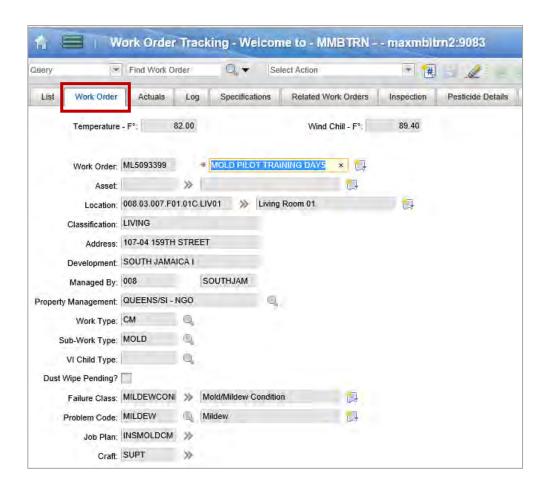


Environmental Education Associates, Inc. pg. 226

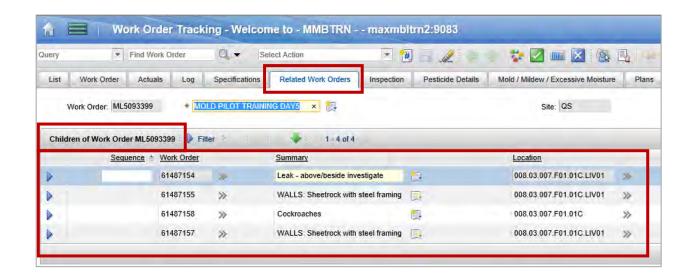
NYCHA Mold Inspection Student Handouts Rev. 4-26-22



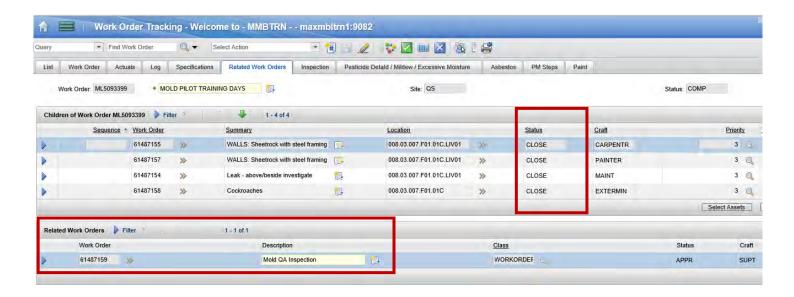
4. The Work Order details display on the Work Order tab.



5. Click on the Related Work Orders tab. The Child Work Orders that got created display.



6. Five days after the last Child Work Order is closed, Maximo auto generates a QA Inspection Work Order. The QA Inspection Work Order is displayed under Related Work Orders.



7. Depending on the QA Inspection findings/responses, a Re-Inspection Work Order gets generated if the QA Inspection fails. The Re-Inspection Work Order will also display under Related Work Orders.