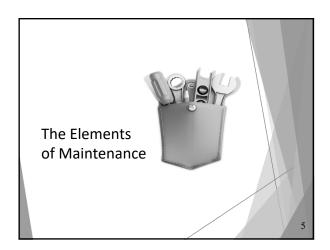


Before We Begin – Acronyms ► ACC ► OSHA ► ACOP ► PHAS ► AMP ► PIH ► CFP ► PM ► CFR **▶** PUM ► COCC ► REAC ▶ DoL ► SDS ► HUD **▶** UPCS



Elements of Maintenance ► Maintenance Plan ► Inspections ► Crime/Vandalism ► Work Order System Control ► Routine Maintenance ► Warehousing and ▶ Emergency Inventory Maintenance ► Maintenance of Tools ► Preventive and Equipment Maintenance ► Homebuyer ► Vacant Unit Maintenance Turnaround

Elements of a Maintenance Plan

- ► Annual inspections ► Routine and janitorial
- ▶ Building and systems ▶ Modernization inspections & repair Procurement
- ▶ Painting
- schedule
- ► Extraordinary
- **▶** Training
- repair/replacement
 ▶ Quality control
- ▶ Programmed maintenance

Categories of Maintenance

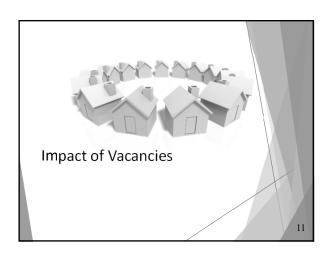
- ► Routine maintenance
- ► Emergency maintenance
- ▶ Preventive maintenance
- ► Cyclical maintenance

Types of Inspections

- ► Move-In
- **▶** Systems
- ► Annual
- ► Housekeeping
- ► Unit Turnaround
- ▶ Quality Control
- ▶ Pre-Move-Out
- ► REAC
- ► Move-Out

Warehousing & Inventory

- ► Inventory management
 - Procurement
 - Materials and supplies
 - Distribution of tool, equipment, & bench stock
 - Work order use monitoring
 - Documentation



Im

pact of Vacancies	
Operating Subsidy	
Rental Income	
Public Housing Assessment System	$\backslash \backslash \backslash $
Revenues to the COCC	$\backslash \Lambda = 1$
Market Appeal	
Security	
Vandalism	
	12

Impact of Vacancies on Operating Subsidy

- ► The PHA does not receive Operating Subsidy for unapproved vacancies exceeding:
 - 3% if PHA has more than 100 units
 - 60 days if PHA has 100 units or less
- ▶ Loss of rental income on vacant units

13

Example of Income Loss

- ► Assume 150 units in project:
 - 150 units X 12 months = 1800 unit months
 - 3% vacancy = 54 unit months allowed in formula
 - 1% additional vacancies = 18 unit months
 - PEL = \$300 PUM
 - Income Loss = \$5,400 (\$300 X 18)

14

Impact of Vacancies to COCC

- ► COCC operates off of fees collected and other non-HUD revenues
- ► COCC loses between \$56 and \$91 in revenue for each vacant unit month
 - \$7.50 per unit per month bookkeeping fee
 - Property management fee (Average \$66 varies from \$49 - \$84 in 2018 depending on location)

15

Impact of Vacancies to COCC

- ► Vacancies may also affect \$10 PUM Asset Management fee
 - Based on units under ACC (not occupied units)
 - Reduced Asset Management fee income increases likelihood of negative cash flow

16

Impact of Vacancies on PHAS

- ► Reduced points for Occupancy Loss under Management Indicator
 - 98% occupancy = all 16 points
 - <98% but ≥96% = 12 points</p>
 - <96% but ≥94% = 8 points</p>
 - <94% but ≥92% = 4 points</p>
 - <92% but ≥90% = 1 point</p>
 - <90% = 0 points</p>

17

Impact of Vacancies on PHAS

- ► Reduced points for Occupancy Rate under Capital Fund Indicator
 - ≥96% = 5 points
 - ≥93% but <96% = 2 points
 - <93% = 0 points</p>
- ► Loss of rental income and operating subsidy negatively impact Financial Indicator Scores: MENAR and QR

18

Impact of Vacancies on Market Appeal

- ► Security
- ▶ Vandalism
- ► Appearance of vacancies
 - Boarded up units
 - Neglected yards

Abandonment Concerns

- ▶ When unit appears abandoned:
 - Notify the manager
 - Determine if unit has electricity/gas
 - Secure the unit
 - If electricity is off, open refrigerator door

20

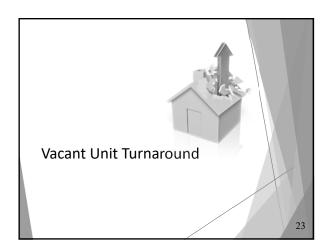
Provide notice of how to gain entry

Abandonment Concerns

- ► Must provide to last known address, notice stating:
 - Where the property is
 - Where it can be claimed
 - How long they have to claim it
 - What will happen if not claimed
 - How much it will cost to store it

Abandonment Concerns

- ▶ Disposition of property
 - State law provides amount at which property must be publicly sold – generally around \$300
 - Property worth less can be disposed of after required storage time

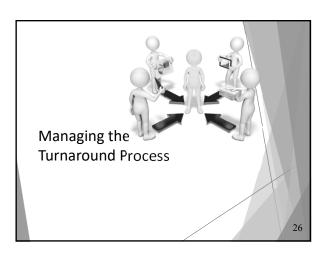


Tracking Vacant Unit Turnaround

- ▶ Pre-Move-Out inspection
- ► Move-Out Date
- ► Move-Out inspection and calculation of charges to vacating tenant
- ► Coordination with Management
- ► Coordination with Contractors

Coordination with Management

- ► Considerations:
 - Unit sizes and locations that can be leased quickest
 - Transfers
 - Capital Fund Program
- ► Notification of projected completion dates



Managing the Turnaround Process

- ► Lock Changes
- ► Storage/Disposal of Unit Contents
- ► Initial Cleaning
- ► Maintenance and Repairs
- ► Final Cleaning
- ► Make-Ready Completion Inspection

Acceptance of Unit & Lease-Up

- ► Final inspection of turned unit by Management
- ► Move-In inspection with new tenant
- ► Courtesy Call/Post Move-In Orientation

Post Move-In Maintenance Orientation

- ▶ 5 10 days after tenant has leased
- ► Assure tenant this is something you must do – don't make them think you are suggesting they are ignorant
- ► Go over each item on checklist and show tenant how to perform each task
- ▶ Obtain tenant signature
- ▶ Leave welcome gift

29



Review Question

The elements of a Maintenance Plan include:

- A. Annual Inspections
- B. Quality Control
- C. Modernization
- D. All the above

31

Review Question

An annual inspection cannot be counted as complete until which of the following happens:

- A. Deficiencies are corrected during the inspection
- B. Work order is issued for correction of deficiencies
- C. Correction of deficiencies is contracted
- D. Correction of deficiencies is deferred to the current Capital Fund program, or to the next year's capital fund program if less than 3 months is remaining in the fiscal year
- E. Any one or more of the above items

32

Review Question

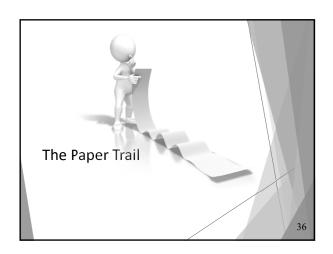
Asset Management does not affect maintenance.

- A. True
- B. False

33

Review Question Vacancies do not affect the Operating Subsidy of the PHA. A. True B. False

Review Question Quality control inspections are used to monitor: A. Quality of work completed from routine and emergency work orders B. Progress and quality of vacancy preparation work C. Accuracy and adequacy of annual inspections D. A and C E. All the above



Importance of Record Keeping

- ▶ Records
 - Provide a means of getting the work done and making sure it is done properly
 - Enable you to analyze trends and plan future actions based on history
 - Can protect you and the PHA when complaints are lodged or litigation occurs

Typical Records

- ► Staff time sheets
- ► Procurement records
- ► Work orders
- ► Inventory
- ► Life-cycle histories
- ► Safety records
- ► Vehicle Logs

► Inspections

Records to Improve Performance

- ► Tracking staff activities
- ► Tracking inventory
- ► Work order management
- ▶ Daily work sheets
- ► Vacancy make-ready records

Typical Forms ► Work orders ► Inspections ► Accident report forms ► Requisitions



Work Order System ➤ Most important tool in the maintenance operation ➤ All work should be documented by work order • It may be necessary to take care of emergencies or life-threatening situations before generating a work order.

Emergency Work Order

- ► A deficiency that poses an immediate threat to life, health and/or safety of a property or resident or that is related to fire safety
- ► Emergency Work Order **MUST** be abated within 24 hours

Non-Emergency Work Order

- ► A deficiency that does not pose an immediate threat to life, health and/or safety of a property or resident
- ▶ Does not include:
 - Cyclical tasks
 - Work deferred for capital funding and/or vacant unit preparation

Purposes of Work Order System

- ► Record maintenance work that needs to be completed
- ► Track its progress and completion
- ▶ Document materials usage

Purposes of Work Order System

- ► Provide basis for monitoring effectiveness and productivity of staff
- ► Assure that necessary resources are available
- ► Provide historical data

Components of Work Order Systems

- ► Work order forms
- ► Work order logs
- ► Work order assignments
- ► Work order tracking
- ► Quality control
- ► Weekly maintenance summaries
- ► Monthly reports

W

ork Orders		
ork Orders		
Work Order sources		
Preventive Maintenance schedule		
 Residents 		
• Staff		
 Inspections 		
Community		
	48	
	40	

Work Orders

- ► Work Order priorities
 - Emergency
 - Routine
 - Urgent
 - Not urgent
 - Cyclical

Work Order Forms

- requested
- ▶ unit/address where work is needed
- ▶ description of work
- ▶ urgency of request
- ▶ skill level required to ▶ "OK to enter" complete the work
- ▶ date the work was ▶ how long it took staff to complete the
 - ▶ whether or not the resident should be charged for the repair
 - documentation

50

Work Order Forms

- ▶ whom the work is assigned to
- ▶ date and time the work was started and completed
- ▶ supplies and parts used to make the repairs and the costs of these items
- ▶ report to management any adverse condition/lease violations that need follow-up
- ▶ signature lines for both the resident and maintenance worker to certify the work was completed
- ▶ date and results of quality inspection of work

4			
51			

Scheduling Work

- ▶ Double-check resource availability
- ► Predict how long each maintenance requirement will take
- ► Coordinate with other maintenance activities and PHA departments
- ▶ Distribute work load

Work Order Management

- ▶ Work orders
 - should be assigned at beginning of each day and turned back in at end of each day, whether completed or not
 - Completed Work Orders should be reviewed to verify materials used and completeness
 - Completed Work Orders should be promptly entered into housing software and filed

52

PHA Work Standards

© 2018	The Nelrod	Company,	Ft.	Worth,	Texas

Objectives

- ► Given the requirements of PHAS, develop an understanding of how to improve agency performance
- Given the principles of work standard development, develop a comprehensive list of maintenance work standards for your PHA

55

Authorization to Assess Agencies

- ▶ 42 U.S.C. 1437d(j)(2) defines "troubled public housing agency" and specifies criteria for determination and actions
- ► 6(j) of the U.S. Housing Act of 1937 lists 7 required evaluation criteria and allows
 Secretary to add up to 5 additional criteria

56

6(j) Required Assessment Criteria

- ► Number and percentage of vacancies, including progress to reduce vacancies
- ► Capital fund obligations and expenditures
- ▶ Percentage of rents uncollected
- ► Energy consumption
- ► Repair and turnaround of vacancies
- ► Maintenance work orders
- ► Annual inspections

57

Interim PHAS Rule

- ► Aligns PHAS with Asset Management
 - Individual project scoring
 - Physical
 - Financial
 - Management
 - PHA-Wide Capital Fund score
 - Overall PHAS score and designation for agency

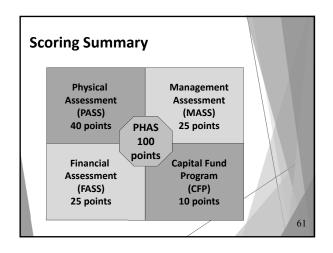
58

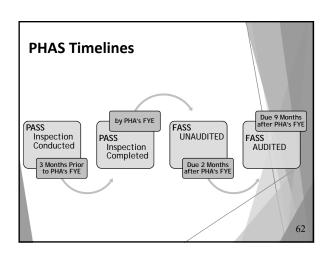
Interim PHAS Rule

- ► Scores only Public Housing and Capital Fund programs
- ► Assessment relies heavily on:
 - Physical condition of properties
 - Financial condition of properties
 - Occupancy

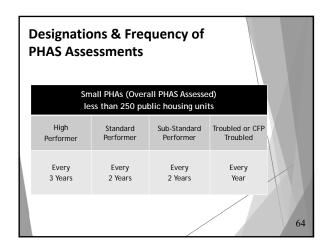
Interim PHAS Data Sources

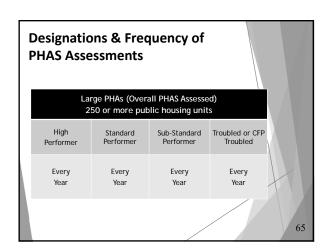
- ► Financial Data Schedules both audited and unaudited
- ► PASS
- ► Electronic Line of Credit Control (eLOCCS)
- ► PIH Information Center (IMS/PIC)

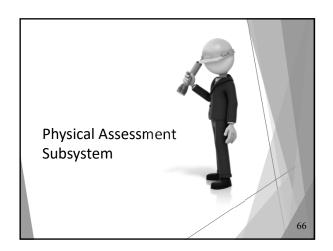


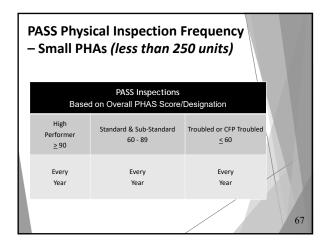


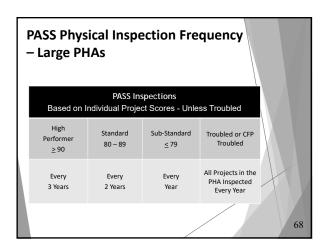
		\\
PHAS Designation	Composite PHAS Score	Individual Indicator Score
High Performer	Overall score of 90% or higher AND	At least 60% of points each for PASS(24), FASS(15 and MASS(15) and 50% of points for CFP(5)
Standard Performer	Overall score of at least 60% AND	At least 60% of points each for PASS(24), FASS(15 and MASS(15) and 50% of points for CFP(5)
Substandard Performer	Overall score of at least 60% BUT	Less than 60% in one or more of PASS, FASS or MASS Indicators
Troubled	Less than 60% overall score	
CFP Troubled		Less than 50% on CFP Indicator











Physical Condition Indicator ► Inspections performed based on individual project performance, unless troubled ► Units exempted from physical inspection: • Undergoing vacant unit turnaround • Undergoing rehab in an approved and fully funded rehab plan • Off-line units that require repairs that cannot be made in a normal period of time (5 – 7 days) • Units off-line for designated use will be inspected as common area

Physical Condition Indicator

- ► Passing score ≥60% or at least 24 of 40 points available
- ► Statistically valid sampling of occupied units will be inspected as dwelling units
- ► Access to units must be granted, even if tenant has installed or changed locks
 - If inspector is not granted access, project will receive a physical inspection score of zero

Property

Site (15%)

Building (85%)

Building (85%)

Building (85%)

Areas (15%)

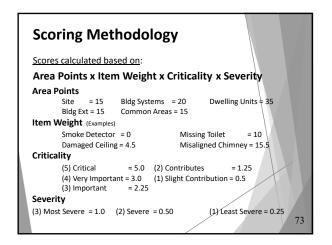
Health & Safety (across all areas)

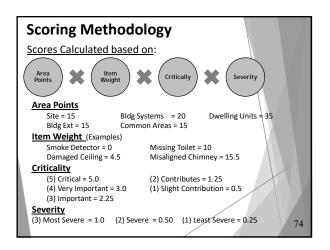
To property

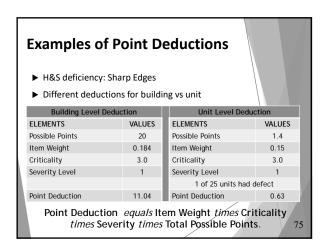
Dwelling Units (35%)

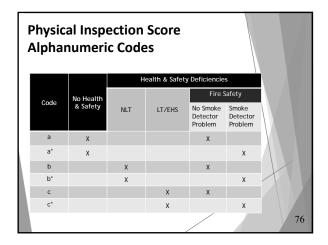
Health & Safety (across all areas)

Scoring Inspections ▶ Federal Register • Public Housing Assessment System (PHAS): Physical Condition Scoring Notice and Revised Dictionary of Deficiency Definitions Notice • August 9, 2012









Technical Review & Database Adjustments ► Technical review submission • 30 days from the date the inspection report is released ► Database Adjustments • 45 days from the date the inspection report is released ► HUD's decision on a request for technical review is final and may not be further appealed.

Technical Review ► Must show that an objectively verifiable and material error occurred • Request for must be submitted in writing to REAC, Attn: Technical Review • Must be received no later than 30 days following issuance of the applicable results to the PHA • Must include evidence to support error

What is a Material Error?

- ▶ Building data error
- ▶ Unit count error
- ► Nonexistent deficiency error

Acceptable Evidence Supporting Request

- ► Photographic evidence
- ► Written material from an objective source, such as:
 - Local Fire Marshall or Code Enforcement Official
 - Licensed or registered architect or professional engineer with the authority to sign and seal or "stamp" documents

Actions if Error Found

- ► New inspection
- ► Correct the inspection report
- ▶ Issue corrected physical condition score
- ▶ Issue a corrected PHAS score

score	
81	

© 2018	The Nelrod	Company,	Ft.	Worth,	Texas

Database Adjustments

- Adjustments for factors not reflected or inappropriately reflected in physical condition score
- ► To qualify for adjustment, PHA must notify proper authorities of the deficient element

Database Adjustments

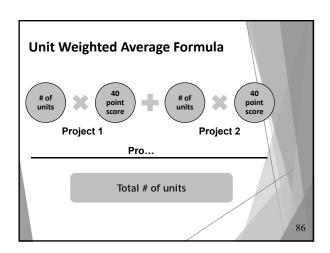
- ► May request adjustment for specific deficiencies
 - Damage caused by 3rd parties
 - Occupied units undergoing modernization

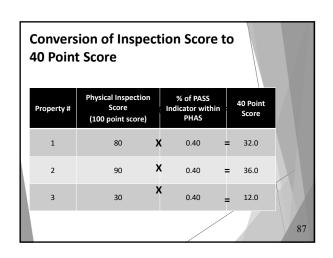
Exigent Health & Safety Deficiencies

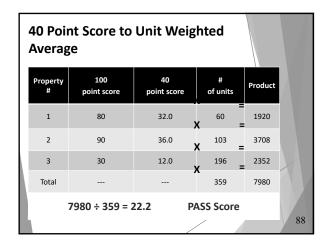
- ► A PHA may, within 24, abate the effect of an exigent health and safety (EHS) violation and later correct the condition
 - Within 3 business days, certify to HUD all EHS deficiencies were project corrected, remedied, or acted upon to abate within 24 hours after receipt of the Physical Inspection Report

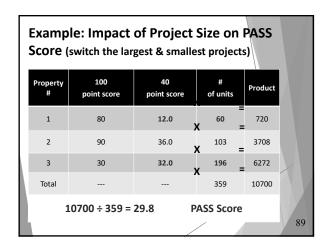
on —

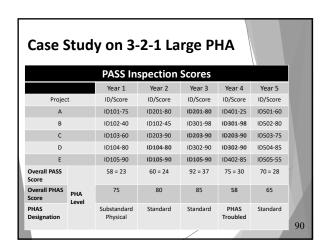
Exigent Health & Safety Deficiencies Required to expeditiously correct, remedy, or act to abate all H&S deficiencies after receipt of the Physical Inspection Report HUD considers 3 days (72 hours) to meet this requirement

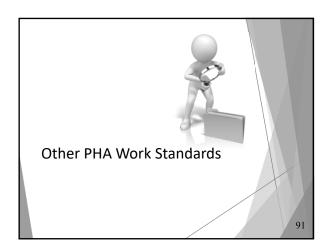












Other PHA Work Standards

- ▶ PHAS is national standard
 - PHA should adopt other standards and goals, such as:
 - Time
 - Dress
 - Productivity
 - Record keeping
 - Work standards

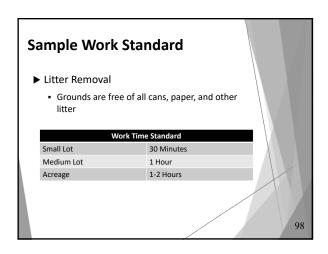
Work Standards	
► Written performance standard by which employee can measure whether he/she meets PHA's expectations	
► Elements of Work Standards	
 Productivity 	\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
 Work Quality 	
 Employee Conduct 	
 Record Keeping 	
	93

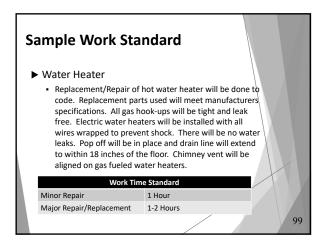
Time Standards ▶ May be included in work standards ► May be a separate chart ▶ Develop based on: PHA work history RS Means Maintenance Description Cost Time Shower door repair/replace 40.00 0.58 hrs Shower drain, repair 8.00 0.59 hrs Toilet, general repair 0.00 1.02 hrs

Sample Work Standard ► Exterior Doors • Doors will operate smoothly and will not stick. Hardware must be aligned and locks must operate properly. Door opening will be sealed from the weather and have appropriate storm/screen doors, in good repair where applicable.

Sample Work Standard ► Work Time Standard • Adjust/lube hardware - 30 minutes; replace door - 45 minutes; repair weather stripping - 30 minutes; screen door re-screen - 30 minutes; screen door repair - 30 minutes; screen door repair - 30 minutes

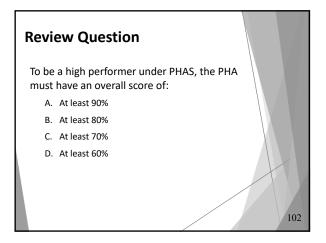
Sample Work Standard ► Litter Removal • Grounds are free of all cans, paper ,and other litter. • Work Time Standard: • Small Lot: 30 minutes • Medium Lot: 1 hour • Acreage: 1 - 2 hours







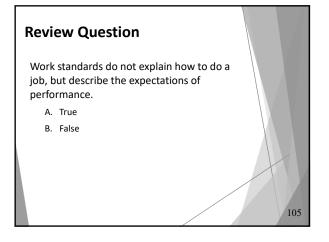
Review Question Under the PASS indicator, how many points out of a possible 40, must be obtained to pass: A. 28 B. 34 C. 35 D. 24

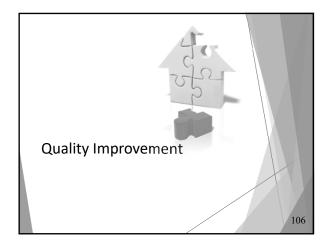


Review Question A PHA must correct all exigent health and safety (EHS) violations within 24 hours after the receipt of the Physical Inspection Report. A. True B. False

103

Review Question Productivity, work quality, employee conduct, and record keeping are the four elements of what: A. Work standards B. Positions descriptions C. Work order system D. Performance evaluation





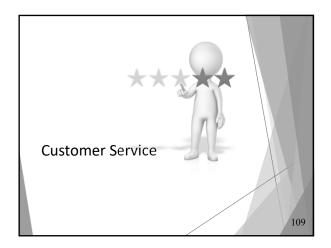
99.9% Quality – Is the Goal Reasonable?

- ► 2 unsafe plane landings per day at Chicago O'Hare Airport
- ▶ 12 newborns given to the wrong parents daily
- ▶ 20,000 incorrect prescriptions each year
- ► 500 incorrect medical procedures performed each week
- ▶ 16,000 pieces of mail lost by the U.S. Post Office every hour
- ▶ 22,000 checks deducted from wrong bank account each hour

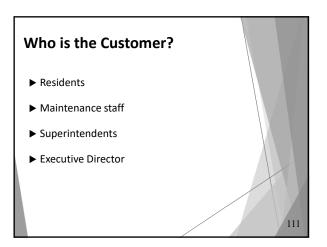
107

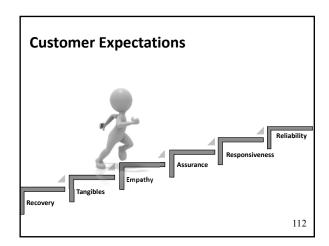
Eight Principles for Quality Improvement

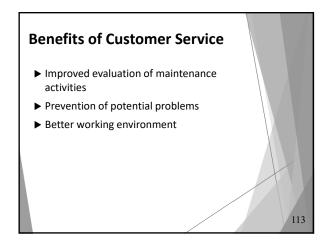
- 1. Customer Satisfaction
- 2. Prevention
- 3. Employee Empowerment
- 4. Management Commitment
- 5. Total Responsibility
- 6. Decisions Based on Data
- 7. Continuous Improvement
- 8. Measurement of Quality

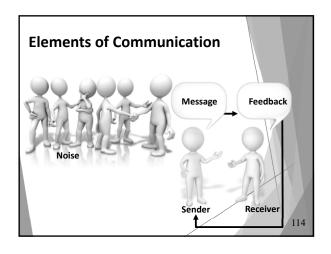


What is Customer Service? ► Creating a positive customer relationship ► Any event involving customer contact ► An approach to work that affects all decisions and actions









Factors in Customer Communication ► Cultural diversity ► Social problems ► Environmental situations ► Credibility

Getting Good Information From Others ➤ Focus the Discussion ➤ Use open-ended questions to expand discussion ➤ Use close-ended questions for specifics ➤ Use non-verbal cues ➤ State your understanding

Getting Your Ideas Across ➤ State the main reason for your message ➤ Present points to help understanding ➤ Check for understanding and reaction ➤ Respond to reactions or questions ➤ Summarize main point

Treating Customers Fairly ► Fair Housing

- Disability Laws; Section 504 Focus
- Physical Accessibility
 - Units
 - Non-housing facilities
 - Offices

Equal Treatment ► A good starting point – race, color, national origin, religion, and gender ▶ Not the ending point Persons with disabilities • Familial status – occupancy standards 119

Persons with Disabilities ► Accessible Units ► Units with Accessible Features ▶ 504 Accessibility (ADA) ► Visitability (UFAS)

4	0

Physical Accessibility

- ► UFAS (Uniform Federal Accessibility Standards) apply to:
 - Offices
 - Dwelling units
 - Facilities
- ▶ UFAS is a minimum standard
- ► Reasonable accommodation may be required

121

122

123

7 Accessibility Requirements

- 1. Accessible Entrances on Accessible routes of travel
- 2. Accessible Public and Common Use Areas
- 3. Usable Doors
- 4. Accessible Routes Within Dwelling
- 5. Switches, Outlets, and Environmental Controls
- 6. Reinforced Walls
- 7. Usable Kitchens and Bathrooms

Visitability

- ► Allows persons with physical disabilities to visit residents
 - Accessible route from parking area to unit
 - No steps, high thresholds or steep inclines
 - Minimum entry door clearance of 32 inches

-	
-	



Introduction ► Tracking and managing: • Inventory • Materials • Supplies • Tools • Equipment • Vehicles

Inventory/Warehouse System Principles ➤ Maintain adequate quantities of supplies, materials and equipment ➤ Provide a system to track and account for usage of ALL inventory items on a daily basis ➤ Use warehouse space in most efficient manner

Inventory

- ► Asset Management requires managing inventory by Project
 - Purchasing
 - Recordkeeping
 - Reporting
 - Disposition

Inventory

► Maintenance staff plays an instrumental role in supplying individual project data to management, necessary to project procurement planning for:

128

129

- Supplies
- Material
- Equipment
- Contract costs

Inventory Management

► There must be strict inventory control of supplies, material, and equipment necessary to ensure cost control for all projects.

Inventory Management

- ► Standardize inventory items by name
- ► Organize a manual inventory system to agree in format with computerized inventory, if applicable
- ► Provide procurement training for key staff members

130

Inventory Management

- ► Provide training on Internal Controls policy and Fraud Prevention and Detection
- ► Put tools and equipment in separate numbered categories
- ▶ Determine all reorder points (numbers)
- ► Determine all unit prices (cost of individual inventory items)

131

Inventory Management

- ► Hire part-time inventory clerk
 - Full-time if large Agency
- ▶ Dispose of all scrap items
- ▶ Dispose of all obsolete materials
- ► Adjust financial accounting records for addition or removal of inventory

Inventory Management

- ► Require maintenance staff to list all items and materials used on work orders
- ► May use bar code system for tracking inventory items
- ► Set up internal inventory audit system
- ► Update the list of maintenance charges regularly

133

Inventory Management

- ► Establish a control on the movement of tools and equipment items between Projects
- ► Establish a work code for installation of water heaters, refrigerators, and ranges in the work order system
- ► Record model and serial numbers of appliance on leases

134

Inventory & Work Order System

- ► The system should be designed to adjust inventory as:
 - Material is used
 - Transferred to a specific project
- ► Train maintenance staff
- ► Require accurate information on work orders

Inventory Tracking System

- ► PHA's inventory divided into 2 types of properties
 - Non-Expendable
 - Expendable

Establishing Reorder Points

- ► Reorder Point
 - A level above your safety stock at which an order will be placed to replenish each inventory item
- ► Safety stock
 - An amount always kept on hand to prevent out of stocks caused by late deliveries or unexpected heavy use
- ► Establish order quantities

137

Reorder Point Exercise

- ► Given an average monthly usage of 35 toilet float assemblies and a 30 day delivery time, calculate:
 - Safety Stock ___35___
 - Reorder Point 70
 - Order Quantity 105

38			

Planning for Procurement

- 1. Need date (September 1)
- 2. Time allowed for delivery (30 days)
- 3. Purchase order issue (July 31)
- 4. Time to solicit bids or proposals (15 days/solicit July 14)
- 5. Date for submitting requisition (July 13)
- 6. Total days needed = 49

Inventory Card Information

- ▶ Item number
- ▶ Dates of receipt
- ► Item description
- ▶ Work order
- ► Original cost of item numbers
- ▶ Order point
- ► Quantity issued
- ► Reorder quantity
- ▶ Quantity received
- ▶ Balances on hand
- ► Safety stock level

▶ Dates of issue

Stock	Roon	n Inve	ntory	Card		
Stock Ro	oom Inventory Ca	ard				
Expendable I Reorder Poin	tem Description:	Safety Sto	ock	Order Quantity	,	
Date	Work Order	Amount Issued	Receipts	Stock Balance	Supervisor Signature	
					-	
						$\backslash \backslash \backslash \backslash \backslash$
Order No.	Supplier	Quantity	Order Record	Quantity	1	
Order No.	Supplier	Ordered	Delivery Date			

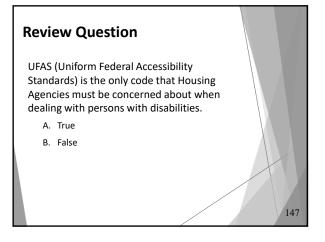
Equipment Tracking Card Information ► Item description (including brand name) ► ID or serial number ► Date purchased ► Issue date ► To whom issued ► Return date ► Signature of responsible person

Inventory	ment		ing Ca	rd	
Date Purchase	d:	Signature	Date Returned	Signature	$\exists \ \backslash \backslash \backslash \backslash $
					$+ \setminus \setminus$
					$+$ $\wedge \wedge \wedge$
					+
					143



Review Question Maintenance employees must deal with both internal customers and external customers. A. True B. False

Review Question Communication skills have little impact on a maintenance person's job performance. A. True B. False



Review Question

An effective Inventory/warehousing system allows maintenance to:

- A. Maintain adequate quantities of supplies, materials, and equipment
- B. Track and account for the usage of all inventory items on a daily basis
- C. Use warehouse space in the most effective manner
- D. All the above

148

149

Review Question

Reorder points should be established for all inventory.

- A. True
- B. False

Personal Safety on the Job

Components of Effective Safety Procedures

- ▶ Awareness
- ► Sharing street sense
- **▶** Communication
- ► Techniques for identifying and avoiding danger
- ▶ Policy of "see but don't see crime"
- ▶ Ongoing staff-resident relations

151

Hazards to Personal Safety

- ▶ Violence
- ▶ Physical Hazards
- ► Health Hazards
- ▶ Improper use of tools and equipment
- ► People

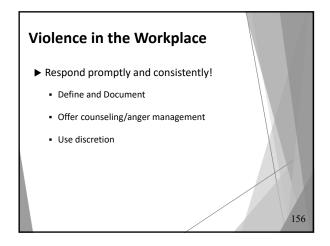
152

Occurrences of Violence

- ▶ Between employees
- ▶ To and from site
- ► On site

Violence in the Workplace ► Causes • Sense of alienation • Sense of lack of respect

Violence in the Workplace ➤ Signs of Risk • Makes impulsive outbursts • Disregards consequences • Claims victim status • Exhibits manic mood swings



Avoiding Violence in the Workplace

- ► Conduct background checks
- ► Zero tolerance policy
- ▶ Training
- ► Confidential reporting system
- ► Respectful practices
- ▶ Violence intervention programs
- ▶ Reduction of workplace stressors

157

To and From Work Site Procedures

- ► Check in with Property Manager
- ▶ Park at manager's office
- ► Require staff to wear uniforms
- ► Schedule staff together
- ► Avoid loitering people
- \blacktriangleright Drop-off and pick up from high crime areas
- ► Expand resident watch program
- ► Take only pertinent equipment

158

Onsite Procedures

- ► Have communications available
- ► Require regular site checks
- ► Announce yourself upon entry
- ▶ Use caution when entering empty units
- ► Lock yourself in
- ► Have staff check in
- ► Arrange for police

Onsite Procedures

- ► Require resident presence when possible
- ▶ Do not go into units when no adult is home but children are in unit
- ► Avoid compromising situations
- ► Report situations to supervisor

Occupational Safety

- ▶ Don't wait for OSHA inspection
- ► Correct safety problems for safety's sake
- ► Moral and legal responsibility
- ► Maintain records

Safety Program

- ► Safety manual
- ► Training and safety programs
- ► Safety inspections
- ▶ Enforcement of rules
- ▶ Incentive programs
- ► First aid training for supervisors
- ► Clean up procedures

162

© 2018 The Nelrod Company, I	Ft. Worth,	Texas
------------------------------	------------	-------

Employee Responsibility

- ► Comply with requirement
- ► Inform employees of standards and PHA's mission to protect them
- ► Observe visual warning signs
- ► Attend safety training

Employee Responsibility

- ▶ Read OSHA posters on job site
- ► Comply with applicable standards
- ► Follow PHA safety and health rules
- ► Report hazardous conditions to supervisor
- ► Report job related injuries and illness and seek treatment promptly

164

Commitment to Safety & Health

- ► All maintenance staff should:
 - Practice safe work habits
 - Understand that safety rules protect your health and ability to earn income
 - Identify problems and potential risks and report hazardous conditions
 - Use personal protective equipment (PPE)
 - Provide input on reducing or eliminating risks

Commitment to Safety & Health

- ► Rethink how to change a physically demanding job to make safer or less demanding.
 - For example, replace string mops
 - Use lightweight microfiber mops that can be detached and laundered
 - Use lightweight telescopic pole to extend reach and minimize awkward body postures

166

Effective Training

- ► OSHA requires regular training
- ► Present PHA's safety polices, procedures and steps to take in emergencies
- ► Encourage proper body mechanics, handling of chemicals and use of PPE
- ▶ Include demonstrations and visual aids

167

Equipment Safety

- ► Ensure correct and appropriate use
- ▶ Perform routine service and simple repairs
- ► Report for repairs as soon as there is a malfunction

Personal Safety

- ► Avoid working in awkward position
- ► Do not remain in same position for long time or with little movement
- ► Avoid continuous pressure from a hard surface

Personal Safety

- ► Take frequent breaks when handling equipment that vibrates
- ▶ Use the right tools for the job
- ► Make sure your tools and equipment are in good working order
- ► Identify tasks that require PPE
- ► Alternate heavy and lighter tasks throughout the day, if possible

Personal Safety	
► Lift properly	\\
► Use equipment properly	
► Be aware of your surroundings	
► Work at an appropriate pace	$\backslash \backslash$
	171

© 2018 The N	elrod Company	y, Ft.	Worth,	Texas

Use of Chemicals

- Know location of the written hazard communication program, including Material Safety Data Sheets (MSDS)
- ► Free use websites containing access to over downloadable and printable MSDSs
 - www.ilpi.com/MSDS
 - www.msds.com
 - www.hazard.com/msds/index.php
 - www.greenbook.net

172

Safe Use of Chemicals

- ► Learn how to handle and use chemicals safely
 - Use products as directed
 - Never mix products (i.e. bleach and ammonia)
 - Follow MSDS and instructions on container
 - Dilute to reduce concentration
 - Store chemicals separately from one another

173

Chemicals

- ► <u>Hazardous</u> means the likelihood that a substance might cause injury.
- ▶ <u>SDS</u> have information on health hazards, specific physical characteristics of chemicals, protective measures and precautions for safe handling, use & storage of each chemical

Wear PPE Correctly

- ► Always start out with new or freshly cleaned gloves and footwear
- ► Whenever you suspect chemicals have gotten inside gloves
 - Change them
 - Wash skin immediately

Wear PPE Properly

- ▶ If arms will be raised when using chemicals, close cuff of glove tightly outside the sleep with heavy duty tape or and elastic band or fold glove back into a cuff to catch chemicals before running onto arm.
- ▶ If arms will be mostly lowered, place sleeves outside gloves to keep chemicals from running down sleeves into gloves.
- ▶ Use gloves that go at least half way to elbow

176

Chemical Resistance

- ► Protective garments and gloves are not equally effective for every hazardous chemical
- ► Select right garment/glove for the chemical used
- ► Key to Chemical Resistance Chart

E – excellent **G** – good **F** – fair **P** - poor (not recommended)

	CHEMICAL	RESISTANC	E CHART		
	Natural Rubber	NBR Nitrile	Neoprene	PVC	PVC/ Nitrile
Adhesives:					
-Ероху	E	E	E	E	E
-Solvent Based	P	G	F	F	G
-Water Based	E	E	E	E	E
Herbicides and Insec	ticides:		•		
-Oil Based	Р	Е	G	Е	Е
-Water Based	E	E	E	E	Е
Oils:			•		
-Animal	P	E	G	G	E
-Cutting	P	G	F	G	E
-Fuel	P	E	E	G	E
-Hydraulic Petroleum	Р	E	G	G	Е
-Hydraulic Ester	Р	F	G	G	G
-Mineral	P	E	G	E	E
-Petroleum	Р	E	E	E	E
-Silicone	E	E	E	Е	Е

	Natural Rubber	NBR Nitrile	Neoprene	PVC	PVC/ Nitrile
Acetic Acid	E	G	E	E	E
Acetone	E	Р	G	Р	F
Ammonium Hydroxide	E	E	E	E	E
Alcohols (Most Common)	E	E	E	Е	E
Butyl Acetate	Р	Р	Р	Е	E
Battery Acid	Р	Р	Р	E	E
Bleach Solutions	F	F	F	E	Е
Chromic Acid & Citric Acid	E	E	Е	E	E
Dimethylformamide	E	F	G	Р	F
Glycols	E	E	Е	E	E
Gasoline/Kerosene/Creosote	Р	E	G	F	G
Hydrochloric Acid (Conc.)	G	E	Е	E	Е
Plasticizers	Р	G	F	Р	F
Methyl Ethyl Ketone	G	Р	Р	Р	F
Methyl Isobutyl Ketone	Р	Р	Р	Р	F

	Natural Rubber	NBR Nitrile	Neoprene	PVC	PVC/ Nitrile
Mineral Spirits	P	E	G	Р	F
Naphtha	P	E	F	F	G
Nitric Acid (Conc.)	P	E	F	F	G
Nitric Acid (Dil.)	G	E	E	Е	E
Phenol/Carbolic Acid	F	Р	G	G	G
Phosphoric Acid	G	E	E	E	E
Picric Acid	E	E	E	E	E
Potassium Hydroxide	G	E	G	E	E
Polyester Resin	E	E	E	E	E
Sodium Hydroxide	G	E	G	E	E
Sulfuric Acid (Conc.)	P	Р	Р	E	E
Sulfuric Acid (Dil.)	E	E	G	E	E
THF (Tetrahydrofuran)	P	Р	Р	Р	Р
Toluene	P	Р	Р	Р	F
Turpentine	P	E	Р	F	G
Urea	E	E	E	Е	E

Clean Up Procedures

- ▶ <u>Never</u> reuse gloves
- ► Wash with soap and water
- ► Do not eat, drink, or smoke, apply cosmetics, or handle contact lenses near contaminated area
- ▶ Dispose or decontaminate equipment

Transmission of Disease

- ► Droplet contact Coughing or sneezing on another person
- ► Direct physical contact Touching an infected person or their body fluid
 - (contagious, not infectious)
- ► Fecal-oral transmission Usually from contaminated food or water sources

182

Transmission of Disease

- ► Indirect contact Touching soil contamination or a contaminated surface
- ► Airborne transmission If microorganism can remain in air for long periods
- ► Vector borne transmission Carried by insects or animals

Bloodborne Pathogens

- ▶ Not transmitted by casual contact
- ▶ Protect yourself from hidden dangers
- ► Take precautions to reduce exposure
- ► Get tested if you fear you've been infected

184

Precautions to Prevent Exposure

- ► Gloves of latex, nitrile or rubber
 - If in doubt, double glove
- ▶ Use face shields and/or goggles
- ► Use a breathing mask if administering CPR
- ► Wash/sanitize hands before and after use of gloves

185

Precautions to Reduce Exposure

- ► Treat all bodily fluids as if infected
- ► Minimize exposure to splashing and splattering
- ► Confine bodily fluids to small area
- ► Follow hazardous material clean up procedures
- ► Know location of first aid kits





Review Question

To reduce exposure of maintenance staff to incidents of crime and violence on the work site, which of the following is not a good practice:

- A. Have communication available
- B. Break up domestic violence situations
- C. Secure vacant units when inside alone
- D. When entering a work site, announce presence loudly

190

Review Question

What Federal agency sets standards and monitors work safety:

- A. Operational Safety and Human Resource Agency
- B. Occupational Space and Health Administration
- C. Occupational Safety and Health Administration

191

Review Question

Maintenance employees are required to participate in safety training on a regular basis.

- A. True
- B. False

Review Question Chemicals can enter the body through the skin, eyes or mouth. A. True B. False

Review Question Blood-borne pathogens can be transmitted by casual contact. A. True B. False

We appreciate your participation! For any class questions or follow-up, please contact Vicki Brower: 817.922.9000 ext. 123 ★ vicki@nelrod.com

Mark Your Calendars! The 19 th Annual Nelrod Consortium Conference	
March 27 – 29, 2019	
Information at www.nelrod.com/96	