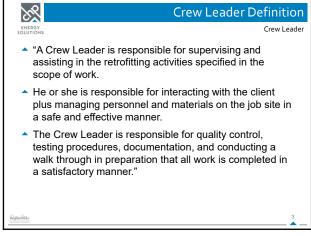


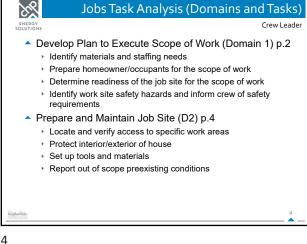
JTA are organized by: Domains, Tasks, Knowledge, Skills and Abilities (KSA)

2

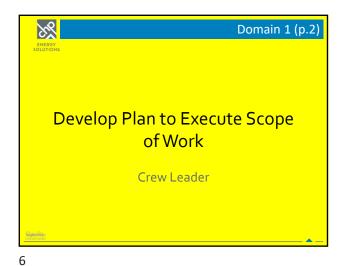


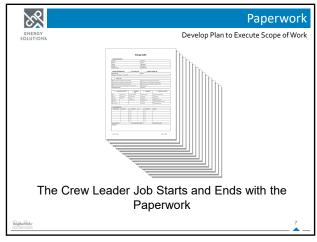
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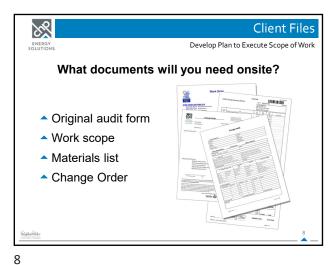
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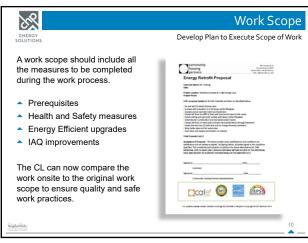
JTA Outline ▲ Implement Scope of Work (D3) p.5 Manage Project (D4) p.12 Conduct diagnostic testing Adjust scope of work as needed to reflect current conditions Report out of scope preexisting conditions Post necessary paperwork Monitor safety practices Maintain and document project progression, personnel control, and compliance Finalize Job (D5) p.14 Verify that all components of the scope of work have been completed in compliance with required codes and standards Complete all post-work documentation as required





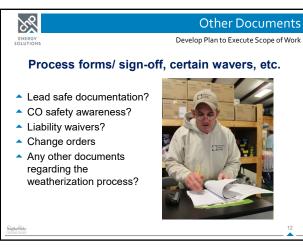


Audit Form Develop Plan to Execute Scope of Work The audit form should specify details such as: Client contact information Size of home (sq. ft & volume) Location of home Baseload Measures Water heating Window Air Conditioners Pre/Post diagnostic results Existing safety concerns and measures



Materials List Develop Plan to Execute Scope of Work There are multiple ways of compiling a materials list. This is an example of using an audit template with a materials library. (NEAT/MHEA)

10 11



The Documents
Into Execute Scope of Work

Wavers, etc.

Who, What, When, and Where

Contractors-The CL (Crew Leader) should contact contractors with issues of their work, as well as supervise the work going on

Energy Auditors- The CL should contact the EA with any issues or missed opportunities found at the site (Major changes may require a re-work of the audit software)

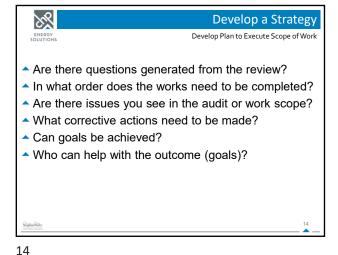
Crew- The CL should have a good command of those working under them

Office- (Coordinator, Program Manager) Communicate with the office issues that need to be corrected and how the timeline of the job will be affected

13

15

12



Prepare a Production Schedule
Develop Plan to Execute Scope of Work

Crews and Subcontractors

Prerequisites
What needs completed prior to the crew starting?

Sequencing measures

Hours needed for completion of work scope measures (# of workers) x (hours on the job) = Total Hours

Identify Materials and
Staffing Needs
Crew Leader

16

(Example) Estimating Materials
Identify Materials and Staffing Needs

Do you have enough material to complete the job?
Do you have a materials list?

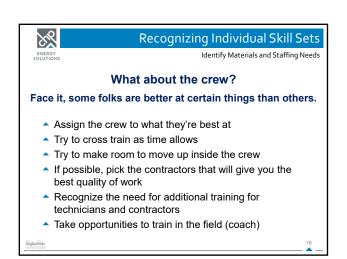
A How many bags of loose fill fiberglass would you need to cover 1600 ft² of attic floor to R-49 if one bag covers 17 ft²?

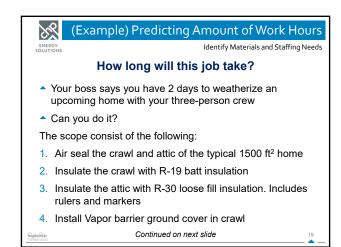
A 1600 ft²/17 ft² = 95bags

How many squares of shingle would it take to cover a 450 ft² shed roof if one square of shingles covers 100 ft²

A 450 ft²/100 ft² = 4.5 squares

17





(Example)Predicting Amount of Work Hours
Identify Materials and Staffing Needs

How long will this job take?

5. Air seal and sweep two doors
6. Replace one windowpane; Cutting the glass on site
7. Dense pack the walls (1280 ft²); Removing a siding board and replacing
8. Insulate the water heater and water lines

Maintaining Tools, Equipment, and Materials
Identify Materials and Staffing Needs

Can your crew do a good job with broken or missing tools?

Ladders

Hand tools

Powered Hand Tools

Generator

Combustion Analyzer

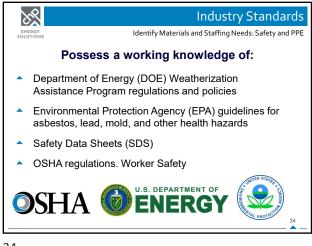
Personal CO Monitor

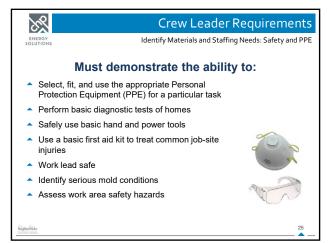
Maintaining Tools, Equipment, and Materials
Identify Materials and Staffing Needs

Storage, inspection, maintenance and calibration of tools and equipment is essential to a smooth-running crew.

Safety and PPE

Identify Materials and
Staffing Needs







Personal Protective Equipment
Identify Materials and Staffing Needs: Safety and PPE

Wear the right PPE for the job!

If it is not comfortable, it is likely you will not wear it when needed.

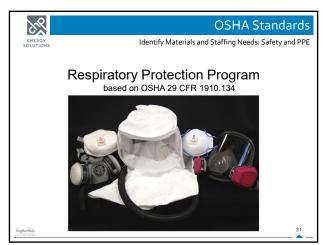
You must be properly fit tested by an accredited professional.

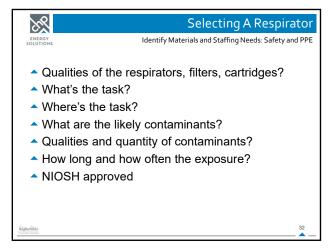
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Respirator Types

Identify Materials and Staffing Needs: Safety and PPE

Filtering Face Piece (FFP)

Half-Face Elastomeric Face Piece

Inline Supplied Air Respirator (hood)

33

32

<u>کئی</u>		Hazards & Respirat	ors
ENERGY SOLUTIONS	Identify Materials and Staffing Needs: Safety and PPE		
	Hazard	Respirator	
	nce or irritant particles n insulation)	N,R,P 95 ffp or filters w/ elastomeric face piece	
	dous particles (Lead ning dust)	P(purple), R(orange), N(teal) 100 ffp or filters w/ elastomeric face piece	
	anates (2-part foam) pen access and some ation	N, R, P 100 with OV canister (purple & black) or Supplied Air Respirator (inline hood)	
	anates (2-part foam) ut open access w/ no ation	Could be IDLH; we don't go there	34
Works			- 📥 —

Other Limitations of Respirators

Identify Materials and Staffing Needs: Safety and PPE

Must be in good shape

Must be worn

Correctly and fit tested

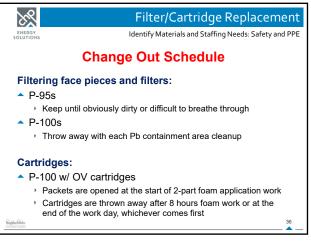
Matching filters/canisters to hazards

Not to be worn in O² deficient worksites

Employees must be medically cleared

Except for filtering face pieces in areas where respirators are not mandated

34 35







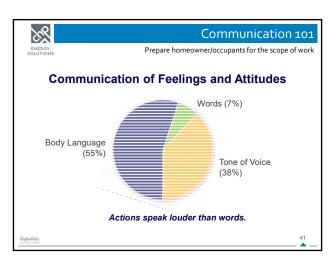
Prepare homeowner/occupants
for the scope of work

Crew Leader

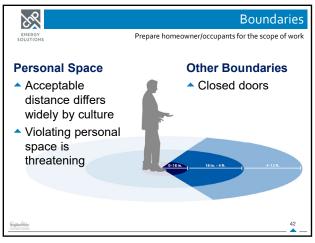
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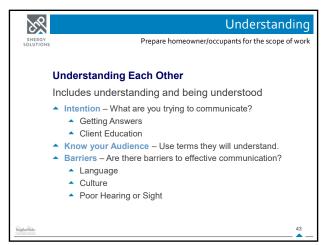
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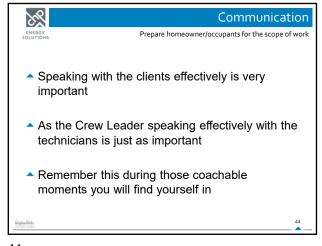


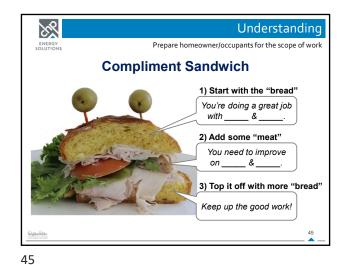


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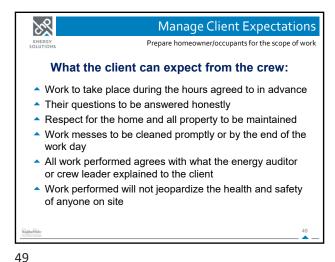
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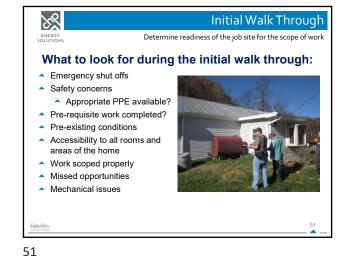
Manage Client Expectations

Prepare homeowner/occupants for the scope of work

What is expected from the client:

Permission to enter all rooms and areas of the home
Access to all rooms and areas of the home
Maintain testing conditions temporarily when needed
Disclosure of any client specific issues
Comfort concerns
Allergies
Valuable items to protect
Ask questions they have about the nature of the work

Sign off on all necessary documents



50



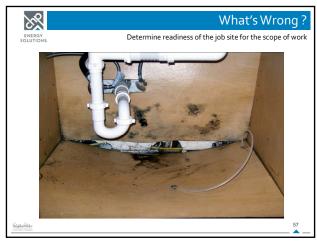


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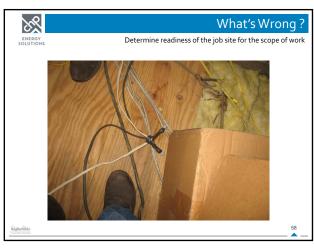


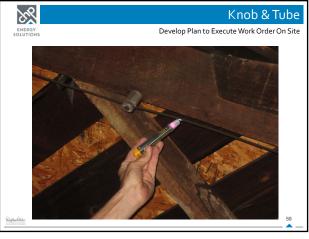






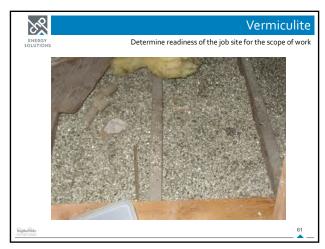
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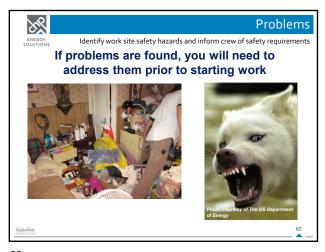




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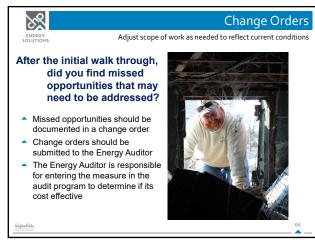
Adjust scope of work as needed to reflect current conditions

Discuss missed opportunities with the auditor

When issues occur, communication with the auditor is paramount. They must understand what went wrong and how they can correct that issue in the future.

63

62



Communication with the Crew

Identify work site safety hazards and inform crew of safety requirements

After the initial walk through, discuss with the crew:

Expectations the client has of them

Client health and safety concerns

Location of shut offs

Completion of prerequisite work

Any job site safety hazards and plans to address job site safety hazards

Any need for lead safe weatherization practices

Appropriate use of PPE

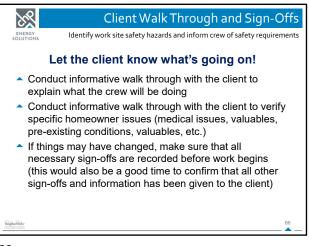
Pre-existing conditions found during the inspection

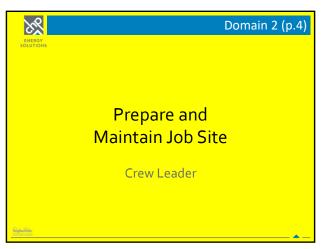
Accessibility concerns

Work has been scoped appropriately

Develop change orders necessary

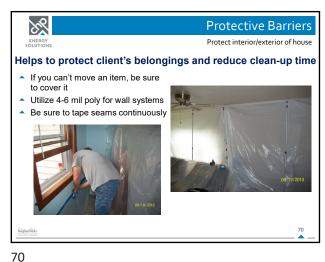
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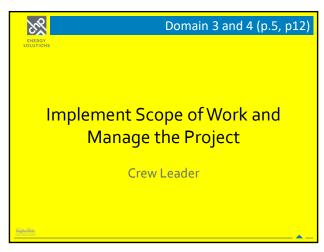


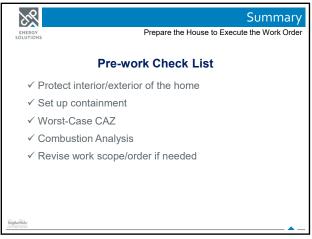


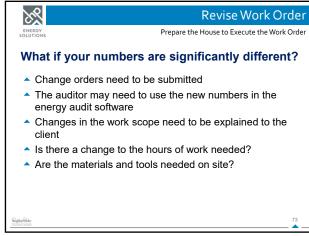














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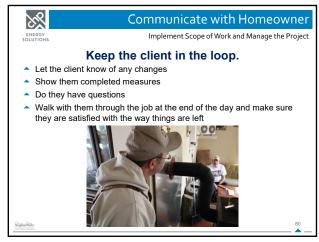




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Conduct End of Day Walk Through

Maintain and document project progression, personnel control, and compliance

End of each day

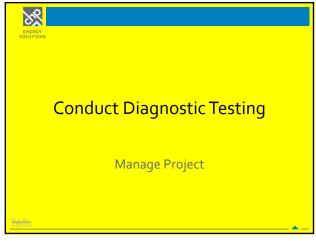
Evaluate cleanliness of containment zones

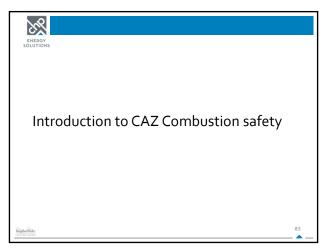
Document work scope items that have been completed

Verify all tools and materials have been removed from the home

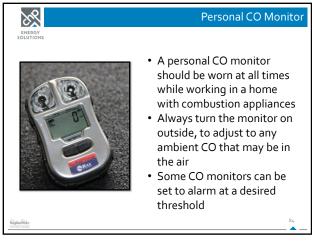
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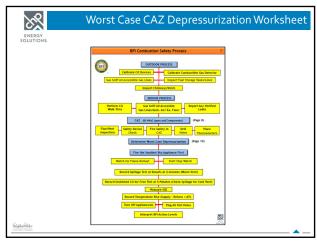


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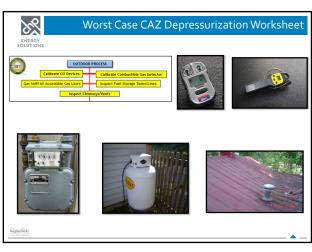






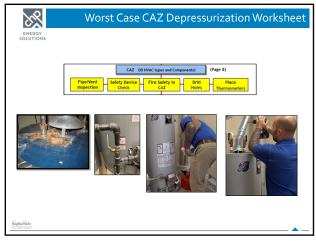


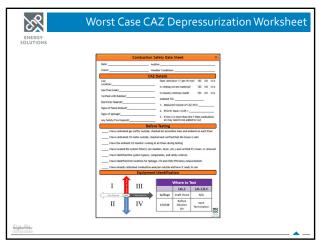
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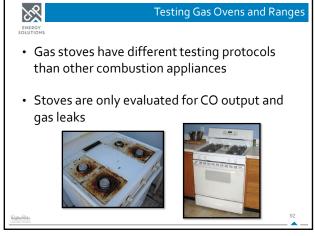


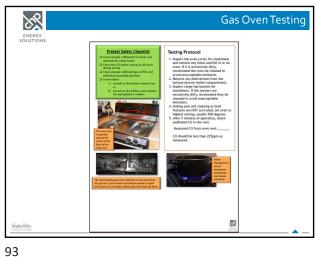


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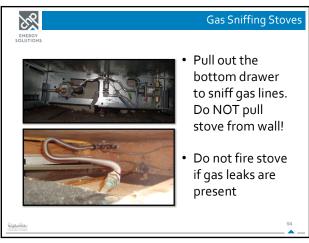


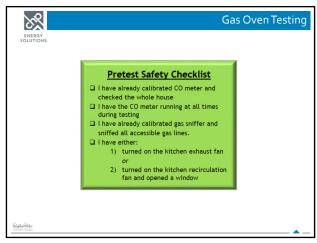




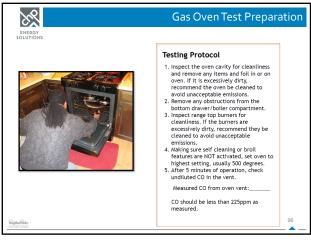


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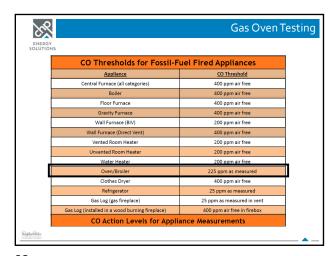




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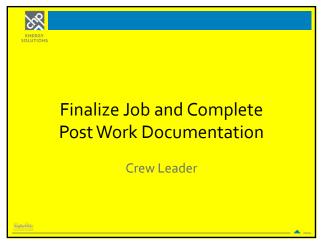






<u>کئی</u> Summary Combustion Safety Health and safety issues related to combustion equipment are some of the most important aspects of auditing a home. Understanding the basic principles of combustion, distribution, and venting will enable the auditor to recognize safety problems. Visual and diagnostic combustion appliance safety and efficiency inspections, and worst case CAZ testing reveal potentially dangerous situations and guide retrofit strategies. Practice appropriate test procedures for vented and nonvented appliances. Understanding the relationship between combustion safety problems and poorly designed or non-code-compliant vent systems is important to finding solutions.

98 99

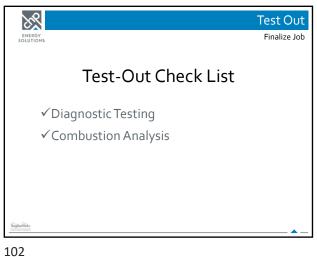


Verify Work Scope Completed
Finalize Job

End of project

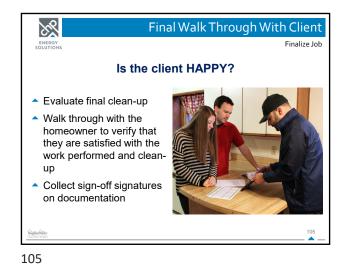
• Verify all components of the work scope are completed
• Verify change order items are complete

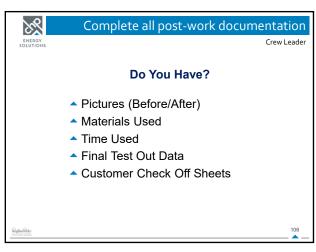
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25 Weatherization Resources ▲Job Task Analysis (JTA) Crew Leader ▲ Hawaii Priority List ▲ Hawaii Health & Safety Plan ▲ Hawaii Weatherization Field Guide Standard Work Specifications

107 106