# Regulations and Standards Quiz Answer Key

# Quality Control Inspector

Learning Objectives

* List selection criteria for weatherization measures.
* Recognize Appendix A as a tool for materials selection.
* Identify DOE rules and guidance.
* Locate resources for residential building, electrical, and mechanical codes.
* Discuss the application of codes in weatherization.
* Locate resources for worker safety requirements.
* Explain the differences between incidental repairs and health and safety (H&S) measures.
* Describe DOE rules and guidance as they apply to incidental repairs and H&S measures.

Questions and Rationale

**Objective:**

* List selection criteria for weatherization measures.

**Question:**

**1.** Which of the following is a required criterion for weatherization efficiency measures?

1. Will pay for themselves through associated energy savings
2. Simple payback is one or greater
3. Will improve the water-tightness of the home

**Rationale:**

**A** is correct. It is a requirement that energy efficiency measures be cost-effective. Health and safety measures are exempt from this requirement.

**B** is incorrect because simple payback refers to the time it takes to pay for the measure through energy savings, and a requirement of one or greater doesn’t make sense. Requiring a simple payback of less than the expected lifetime of the measure would make sense, e.g., 12 years for a refrigerator. The SIR must be one or greater.

**C** is incorrect because it is not required that all efficiency measures be related to the water-tightness of the home.

**Objective:**

* Recognize Appendix A as a tool for materials selection.

**Question:**

**2.** If you have doubts about whether certain materials are approved for use in the program, where should you look?

1. The official WAP SIR calculator
2. National Energy Audit Tool’s library
3. Appendix A of 10 CFR 440

**Rationale:**

**A** is incorrect because the SIR calculator does not list materials.

**B** is incorrect because the library is user generated and may include materials that are not officially approved, or may not include all the materials that are approved.

**C** is correct because Appendix A lists all of the materials that have been approved for use in WAP. Other materials may be approved upon specific application by the state.

**Objective:**

* Identify DOE rules and guidance.
* Describe DOE rules and guidance as they apply to incidental repairs and H&S measures.

**Question:**

**3**. If you are unsure of whether a certain measure qualifies as health and safety, or incidental repair, where do you look for clarification?

1. WPN 11-6 and the state technical field guide
2. WPN 11-6 and EPA Healthy Indoor Environment Protocols for Home Energy Upgrades
3. WPN 08-4 and the state technical field guide

**Rationale:**

**A** is correct because those are the two best resources for determining how measures may be charged. WPN 11-6 provides the Federal guidance and the state documents provide state-specific guidance.

**B** is incorrect because the EPA protocols do not address how work should be charged—as H&S or incidental repair.

**C** is incorrect because WPN 08-4 does not deal with the broad scope of WAP H&S and incidental repairs.

**Objective:**

* Locate resources for residential building, electrical, and mechanical codes.

**Question:**

**4**. Which organization develops codes and standards that include clearance from combustible tables for different venting systems?

1. ASHRAE
2. NFPA
3. OSHA

**Rationale:**

**A** is incorrect because ASHRAE develops standards for refrigeration processes and the design and maintenance of indoor environments.

**B** is correct because NFPA develops NFPA 211 – Standards for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances (among other standards) that include clearance to combustibles tables.

**C** is incorrect because OSHA sets standards related to workplace and worker safety, not clearance to combustibles.

**Objective:**

* Locate resources for worker safety requirements.

**Question:**

**5**. Which organization develops standards describing worker safety requirements?

1. ASHRAE
2. NFPA
3. OSHA

**Rationale:**

**A** is incorrect because ASHRAE develops standards for refrigeration processes and the design and maintenance of indoor environments.

**B** is incorrect because NFPA develops standards related to fire risk and related issues.

**C** is correct because OSHA sets standards related to workplace and worker safety.

**Objective:**

* Explain the differences between incidental repairs and health and safety (H&S) measures.

**Question:**

**6**. Which of the following statements is true in relation to incidental repairs and H&S measures?

1. H&S measures are not included in the SIR calculations.
2. Incidental repairs are not included in the SIR calculations.
3. H&S measures must not be related to energy.

**Rationale:**

**A** is correct because guidance states that H&S measures are not subject to the same SIR requirements as incidental repairs and energy-saving measures.

**B** is incorrect because incidental repair measures must be included in the SIR calculations for the entire package of energy-saving measures.

**C** is incorrect H&S measures are defined as *energy-related* health and safety measures.