# General Construction and Carpentry Quiz Answer Key

# Weatherization Energy Auditor – Single Family

**DISCLAIMER: This quiz is intended for use as an interim review. Distribute to students after training the associated curriculum chapter, or the next day, to refresh the lesson. Being publicly available renders this specific quiz invalid for use as a formal assessment tool for accreditation.  See Tier 2.14(b) IREC 01022 ISPQ accreditation standard.**

Learning Objectives

By attending this session, participants will be able to:

* Define residential house construction terminology.
* Recognize characteristics of various types of structural framing.
* Identify different types of foundation, wall, roof, window and door systems.
* Differentiate between platform and balloon framing.
* Explain the impact that different framing types have on air leakage.
* Review window and door installation processes.

Questions and Rationale

**Objectives:**

* Identify different types of foundation, wall, roof, window and door systems.
* Define residential house construction terminology.

**Question:**

1. The types of foundation systems that do not commonly experience outside temperatures throughout the year are: *(Circle all that apply.)*

1. Below grade basement
2. Pier and Beam Foundation
3. Vented crawl space
4. Slab on grade

 **Rationale:**

**A & D** are correct because these areas normally experience outside temperatures throughout the year.

**B** **& C** are incorrect because they are generally inside the thermal boundary and do not experience outside temperatures throughout the year.

**Objectives:**

* Differentiate between platform and balloon framing.
* Recognize characteristics of various types of structural framing.

**Question:**

2. Balloon framing can be detected by the presence of:

1. Open topped wall stud bays in an attic.
2. Double top plated partition walls.
3. Sill plates.

**Rationale:**

**A** is correct because with balloon framing the wall studs run continuously from the basement to the attic with no top plate.

**B & C** are incorrect because those features are associated with platform framing.

**Objective:**

* Explain the impact that different framing types have on air leakage.

**Question:**

3. An example of a major air leak associated with platform framed construction is:

1. Dropped ceiling over a closet with open topped wall studs.
2. Leaks around windows and doors.
3. Kitchen cabinet bulkhead open to the attic.

**Rationale:**

**A** is incorrect because open topped stud walls are associated with balloon framing.

**B** is incorrect because leaks associated with windows and doors are generally minor.

**C** is correct because this is a feature often found in older platform framed homes.

**Objectives:**

Review window and door installation processes.

**Question:**

Which of the following is not a step for the installation of an in-jamb replacement window?

1. Score all painted joints with a sharp utility knife.
2. Remove all interior and exterior window trim.
3. Seal the perimeter with low expanding foam.

**Rationale:**

**A** is in correct because scoring the paint is an appropriate step to prevent the trim from splitting when removing with a pry bar.

**B** is correct because only the window sash and interior window stops need to be removed.

**C** is incorrect because applying sealant will prevent air infiltration.