# Inspector’s Toolbox Quiz Answer Key

# Quality Control Inspector

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

* Identify the necessary inspection tools and equipment and their use.
* Explain the purpose of various tools used by inspectors.
* Discuss the importance of following manufacturer’s recommendations for care and maintenance of tools and equipment.

Questions and Rationale

**Objectives:**

* Explain the purpose of various tools used by auditors.

**Question:**

**1**. A blower door can be used for the following purposes except:

1. Finding air leakage.
2. Quantifying leakage.
3. Determining IAQ.

**Rationale:**

**A** is incorrect. The blower door is designed to enable the user to find leaks that enter the living space.

**B** is incorrect. The blower door is designed to enable the user to measure air leakage.

**C** is correct because the blower door can’t determine the quality of the air, just how and where it is leaking.

**Objective:**

* Discuss the importance of following manufacturer’s recommendations for care and maintenance of tools and equipment.

**Question:**

**2**. Combustion analyzers must be calibrated:

1. Every 2 years.
2. At regular intervals according to manufacturer recommendations.
3. Every 6 years.

**Rationale:**

**A** is incorrect because the interval can vary according to manufacturer recommendations

**B** is correct as per manufacturer recommendations

**C** is incorrect because the interval can vary according to manufacturer recommendations

**Objective:**

* Explain the purpose of various tools used by auditors.

**Question:**

**3**. Zonal pressure diagnostics (ZPD) can help the user do any of the following except:

1. Identifying connections between the floor and wall framing.
2. Deciding how to align the air barrier and thermal boundaries.
3. Measuring refrigerator consumption.

**Rationale:**

**A** is incorrect because (ZPD) *can* help the user identify connections between the floor and wall framing.

**B** is incorrect because (ZPD) *can* help the user decide how to align the air barrier and thermal boundaries.

**C** is correct because refrigerator consumption is measured with a watt meter.

**Objective:**

* Identify the necessary auditing tools and equipment and their use.

**Question:**

**4**. Match the following tools to their intended use:

**Tools**:

1. Blower door
2. Pressure pan
3. Flow meter
4. Gas sniffer
5. Combustion analyzer
6. IR camera

**Uses**:

1. Determine exhaust fan performance
2. Evaluate combustion equipment
3. Identify fuel leaks
4. Evaluate thermal performance of building envelope
5. Quantify air leakage of building
6. Evaluate duct leakage and locate leaks

**Answer Key:**

A – 5

B – 6

C – 1

D – 3

E – 2

F – 4