# In-Progress Monitoring and Inspecting

# Quality Control Inspector

Learning Objectives

By attending this session, participants will be able to:

* Explain the benefits of performing in-progress inspections and who performs them.
* Verify appropriate measures are being installed correctly.
* Describe the importance of ensuring safe work practices are being observed.
* Discuss the need to ensure equipment is up to date, inspected, and functioning properly.

Key Terminology

American Recovery and Reinvestment Act (ARRA)

Call-back

Grantee

Health and safety (H&S)

In-progress units

Inspector

Lead-safe weatherization (LSW)

Material safety data sheet (MSDS)

Monitor

Occupational Safety and Health Administration (OSHA)

Personal protective equipment (PPE)

Subgrantee

Weatherization Program Notice (WPN)

Supplemental Materials

Handouts & Resources

“12 Steps to Lead Safety.” WxTV. Montana Weatherization Training Center. <www.wxtvonline.org>.

“A Look Inside a Wall: Dense Packing.” WxTV. Montana Weatherization Training Center. <www.wxtvonline.org>.

“Accessing Stucco Walls for Dense Packing.” WxTV. Montana Weatherization Training Center. <www.wxtvonline.org>.

“Additional Siding Removal.” Weatherization Tech Exchange. Energy Center of Wisconsin. <www.ecw.org>.

“Behind the Walls.” Weatherization Tech Exchange. Energy Center of Wisconsin. <www.ecw.org>.

Blowing Machine Checklist and Inspection Log.

“Consumer Education Series: Lighting 101.” WxTV. Montana Weatherization Training Center. <www.wxtvonline.org>.

“Dense Packing Exterior Walls with Cellulose from the Interior.” WxTV. Montana Weatherization Training Center. <www.wxtvonline.org>.

“Duct Sealing.” WxTV. Montana Weatherization Training Center. <www.wxtvonline.org>.

“Health and Safety Series: Respirators and Personal Protective Equipment.” WxTV. Montana Weatherization Training Center. <www.wxtvonline.org>.

In-Progress Monitoring and Inspecting Quiz.

In-Progress Monitoring and Inspecting Quiz Answer Key.

“Interior Drilling and Blowing.” Weatherization Tech Exchange. Energy Center of Wisconsin. <http://www.ecw.org/wxdensepackinsulation>.

“Introduction and the Evaluation Process.” Weatherization Tech Exchange. Energy Center of Wisconsin. <www.ecw.org>.

Krendl Machine Company. “Blower Maintenance Guide.”

Quality Control Checklist handout.

Sterner, A. Tamasin. “On-the-Job Mentoring.” *Home Energy* Sept./Oct. 2009. <www.homeenergy.org>.

Thomson, Jeff, Bob Pfeiffer, Suzanne Harmelink, and Martha Benewicz. “Pressure Testing Insulation Blower and Hoses.” WI Weatherization Program (Dec. 1999).

U.S. Department of Energy. Hot Climate Initiative. Air Sealing.

U.S. Department of Energy. Hot Climate Initiative. Combustion Appliance Safety & Efficiency Testing.

U.S. Department of Energy. Hot Climate Initiative. Dense-pack Sidewall Insulation.Bacharach, Inc. “Instrument Maintenance.” <www.bacharachtraining.com>.

U.S. Department of Energy. Weatherization Assistance Program. “WPN 10-1. Program Year 2010 Weatherization Grant Guidance.” December 18, 2009. <www.waptac.org>.

The Energy Conservatory. “Procedure for Field Calibration Check of Digital Pressure Gauges” (January 2007).

The Energy Conservatory. “Operation and Maintenance Tips for Energy Conservatory Test Instruments” (Oct. 2004).

**Online Platform Lessons**

Use these online interactive training modules as prerequisites before students attend the course or as in-class computer lab sessions. Students must first create an account at [www.nterlearning.org](http://www.nterlearning.org) to access the lesson.

i- 7.5 Blower Door Guided Air Sealing <https://www.nterlearning.org/web/guest/course-details?cid=249>

**Relevant Standard Work Specifications**

1.000 - Health & Safety

1.200 - Combustion Safety Testing

1.401.1 - Air Sealing Moisture Precautions

1.402.1 - Crawl Spaces - Drainage

1.700 - Occupant Education & Access

3.000 - Air Sealing

Class Overview

* Begin the training session by asking students if they have conducted in-progress monitoring or inspection. If yes, ask those students to provide a brief overview of their experiences to the group.
* Ask why students think in-progress inspections are important and record the answers. As the slides reveal benefits of in-progress monitoring, check them off the list.
* Consider using props (e.g., blower door apparatus, insulation blower machine, pressure pan, gas leak detector, combustion appliance zone equipment) to conduct hands-on testing. The trainer can show students how to make sure the equipment is functioning properly and in accordance with WAP best practice specifications. (Note: If this is done in the Inspector’s Toolbox section of the class, there is no need to repeat.)
* If possible, make props that have been “rigged” with problems. Try to vary the problems to prevent word spreading through the class about how to identify them. Students should identify the problems with each piece of equipment (e.g., insulation blower does not have enough pressure, blower door hose has slices in it, carbon monoxide draft analyzer is out of calibration). Ask students to examine each prop and take notes. Following this exercise, have students discuss their findings as a class.