

Training on Specific Topics – Instructor Reference

Train the Trainer

Learning Objectives

By attending and taking part in these sessions, attendees will:

- Gain real-world experience delivering trainings on specific topics to an audience of their peers.
- Critique and provide feedback to peers after they train on various topics. Feedback will include:
 - Noting instructor strengths.
 - Suggestions for improvement.
 - Making subject matter understandable.
 - Maintaining student engagement, and more.

Suggested Delivery

The goal of these sessions is to give the class a chance to instruct a group of their peers and receive feedback on that instruction in a comfortable environment. Allow 2 days for student teaching.

This approach works best when trainees have access to computers, tools and materials, and props they can incorporate into their session.

Presentations, notes, lesson plans, and supplemental resources are provided for 9 topics covering much of what an installer needs to know to weatherize a home. Additional resources are available in the Installers' curriculum modules: Fundamentals, Intermediate, and Mobile Homes.

Depending on class size, designate one topic per student, or put students in groups of 2 or 3 to tackle each topic. Ask people to sign up for the topics of their choosing, or have them pick out of a hat.

Once topics are assigned, provide students with a thumb drive or CD-ROM with their course materials (the materials provided here within each topic folder) the day before student teaching begins. Create a schedule so students know when they will be presenting.

For each topic, give students access to the materials listed below. Allow 15 to 20 minutes between sessions for the next instructor(s) to set up the classroom. All presenters should have access to a projector, computer, and whiteboard or flipchart at the minimum.

After each session, have students complete the feedback forms. Make copies, keeping one set for yourself and providing another to the student teachers. If time allows, discuss each session as the next student teachers get set up. Talk about the instructors' strengths and areas for improvement.

Classroom Props, By Topic

Do your best to make the following tools, materials, and props available to student teachers. Bold items are hands-on props. See files included in the topic folders for photographs of these props.

Air Sealing and Attic Prep

Dust mask and other safety gear

Flashlight

Foam board

High temperature caulk

Installer's attic prop

Insulation rulers

Mastic and gloves

Sheet metal/foil/flashing

Spray foam

Stapler

Tin snips

Utility flags

Utility knife

Weatherstripping

Zip ties & tightening tool

Attic Insulation

Access to blower machine to point out parts

Cellulose sample

Insulation rulers

Internet access in classroom for displaying various Web sites

Sample attic tag from cellulose bag

Surveyors' flags

Blower Door Basics

Blower door and manometer

House of Pressure or similar prop

For classroom demonstration: two 2-liter bottles full of tap water, two different sizes of cups, somewhere to dispose of water

Combustion Appliance Testing

Access to various types of combustion appliances for demonstration

CO detector

Combustion analyzer

Gas leak detector

High-temperature caulk (if re-sealing holes)

Manometer and hose

Mirror and flashlight

Pipe tape and wrenches (to repair leaks)

Soap solution

Various types of vent connectors

Dense-Pack Sidewall Insulation

Cellulose and/or fiberglass loose fill insulation

Dense-pack sidewall prop

Functioning blower machine and hoses

Gauges for reading hose pressure

Halogen lamp or other heat source

Infrared camera

Surveyor's flag bent into a "Z" for testing density

Two cardboard boxes

Duct Sealing and Insulation

Aluminum brake

Aluminum coil stock

Brushes, latex gloves, and cleaning supplies

Butyl-backed tape

Duct sealing prop

Various types of duct sealing tools and materials for show and tell, including:

Aluminum coil stock

Mastic

Butyl-backed tape

Inspection mirror

Fiberglass mesh

Inspection mirror

Mastic

Pressure pan and manometer

Fiberglass mesh tape

Brushes, latex gloves, and cleaning supplies

Aluminum brake

Interpreting Infrared

Infrared camera hooked up to live feed monitor

Moisture Assessment

Moisture meters: contact and non-contact
meters as illustrated in slide

Sling psychrometer and chart

Small piece of dry lumber

Small piece of lumber that has been soaked in
water overnight

Zone Pressure Diagnostics

Adhesive plastic used to cover registers

Hoses

Manometer

Pressure pan

Telescoping handle