

Air Leakage Control

Air Leakage Control affects all aspects in a home - from sealing the attic, to the walls, to the foundation and all areas in between.

This course provides step-by-step instruction to eliminate cold, drafty rooms without causing backdrafting or ventilation problems. This provides the home owner with an energy efficient home.

In this course, you will learn how to:

- Assess the potential for air leakage control
- Develop an air leakage control strategy
- Use and maintain tools
- Select materials
- Control air leakage in attics
- Control air leakage at exposed floors
- Control air leakage at main floor header areas and basement ceilings
- Control air leakage at foundation walls
- Control air leakage at exterior walls
- Control air leakage at windows



Course Outline

Function A

Assess Potential for Air Leakage Control

- discuss and outline steps for assessment

Function B

Develop an Air Leakage Control Strategy

- explain and develop an air leakage control strategy

Function C

Use and Maintain Tools

- use and maintain caulking guns, foam sealant guns, pneumatic equipment, specialized power equipment

Function D

Select Materials

- select sealants, backer materials, blocking materials, weatherstripping materials, specialty materials

Function E

Control Air Leakage in Attics

- identify ways to prevent moisture problems in attics and potential air leakage locations in the attic
- identify locations of air leakage in the top of a partition wall at the attic floor level
- control air leakage around the electrical fixture

Function F

Control Air Leakage at Exposed Floors

- know the tasks that should be completed before starting air leakage control work at exposed floors
- identify the correct sealants and other materials required to control air leakage
- control air leakage on mockups

Function G

Control Air Leakage at Main Floor Header Areas and Basement Ceilings

- identify air leakage locations for each type of main floor header area
- identify tasks that should be completed before starting air sealing work at main floor header area and basement ceilings
- control air leakage on mockups of main floor header

Function H

Control Air Leakage at Foundation Walls

- identify types of foundations and common air leakage locations and describe foundation rehabilitation
- identify tasks that should be completed before starting air sealing work in the basement
- seal various widths of cracks on a mockup

Function I

Control Air Leakage at Exterior Walls

- describe direct and indirect air leaks in walls
- control air leaks at bottom plates, at electrical receptacles and switches, at interior finish cracks

Function J

Control Air Leakage at Windows

- seal around trim, joints, glass, and sash
- replace weatherstripping on sliding windows

Function K

Air Leakage Control for Doors

- describe types of doors and air leakage locations
- weatherstrip a hinged door