

Sample Course Schedule

Weatherization Installer/Technician Mobile Homes

Day 1 – Classroom/Lab

Registration, Introductions, and Orientation

- **Introduction to Mobile Homes**
 - History and development of mobile homes
 - Construction details
 - Show and tell mobile home components
 - Problems and opportunities
 - Construction era
 - Weatherization priorities for mobile homes
 - Retrofit options and benefits
- **Duct Diagnostics and Repair**
 - How a mobile home's forced air distribution system works
 - Mobile home duct configurations
 - Diagnosing duct leakage problems
 - Materials and techniques
 - Show and tell duct sealing tools and materials
 - Duct sealing exercise
 - Modifying a belly return system
 - Other duct system improvements
- **Mobile Home Belly Retrofit**
 - Insulating the belly cavity
 - Factors to consider before insulating
 - Mobile home floor components
 - Belly preparation methods
 - Specialized tools and materials
 - Show and tell tools and materials
 - Accessing the belly cavity
 - Insulation techniques

Day 2 – Field Work

Review Day 1

- **Hands-on Training at Mobile Home Job Site**
 - Arrive at job site
 - Wake up with coffee and donuts
 - Explain the day's agenda and goals
 - Conduct visual inspection
 - Conduct blower door, zonal, and pressure pan tests
 - Repair, seal, and improve duct system
 - Conduct post-duct sealing blower door and pressure pan tests
 - Prepare and access belly cavity
 - Seal air leaks
 - Insulate the belly cavity
 - Conduct post belly retrofit blower door test
 - Clean up and adjourn

Day 3 – Classroom/Lab

Review Day 2

- **Mobile Home Sidewall Retrofit**
 - Mobile home wall components
 - Heat loss from mobile home wall systems
 - Re-insulating wall cavities
 - Specialized tools and materials
 - Show and tell tools and materials
- **Mobile Home Roof Retrofit**
 - Cost-effectiveness
 - Mobile home roof components
 - Preparatory measures
 - Insulation properties
 - Specialized tools and materials
 - Show and tell tools and materials
 - Methods for accessing and insulating
 - Sealing and finishing

- **Mobile Home Heating Systems**
 - Heating system characteristics and components
 - Show and tell heating system components
 - Furnace testing protocols
 - Furnace testing equipment
 - Demonstrate furnace testing equipment
 - Improvements
 - Furnace replacement criteria
- **Other Mobile Home Measures**
 - Window and door characteristics
 - Show and tell window and door components
 - Replacement criteria and methods
 - Hot water tank features, safety, and improvements
 - Replacement criteria
 - Incidental repairs
 - Moisture and IAQ

Day 4 – Field Work

Review Day 3

- **Hands-on Training at Mobile Home Job Site**
 - Arrive at job site
 - Wake up with coffee and donuts
 - Explain the day's agenda and goals
 - Conduct visual inspection of walls
 - Prepare and insulate wall cavities
 - Conduct post-wall retrofit blower door test
 - Prepare and access roof cavity
 - Insulate the roof cavity
 - Inspect and test heating system
 - Inspect and test hot water tank and other appliances
 - Demonstrate a window or door replacement
 - Conduct final blower door and safety tests
 - Clean up and adjourn

See Lesson Plan for Each Section