# 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*