

Course Length

40 Hours (5 Days)

Course Description

The RESNET HERS Rater course is designed to give an individual the knowledge and skillset to accurately perform HERS Ratings and energy analyses on new and existing construction. This course is ideal for general contractors, home builders, electricians, and anyone interested in learning about energy efficiency in new residential homes.

Course Learning Objectives

- Understand the fundamentals of building science
- Know the basic energy systems that impact a home’s energy consumption and durability
- Identify common building envelope problems that reduce efficiency, air quality, comfort, and occupant health and safety
- Conduct an energy audit and comprehensive home assessment
- Define building shell and understand how it relates to a home’s energy consumption
- Explain diagnostic equipment for evaluating a building’s thermal envelope and pressure boundary
- Perform two energy models of homes to determine how these homes compare to the “standard home”

Course Schedule

Day 1	Day 2	Day 3	Day 4	Day 5
Classroom Training	Classroom Training	Field Training	Classroom Training	Classroom Exam
<ul style="list-style-type: none"> - Introduction to Building Science - Construction Math and Blueprint Reading - Principles of Energy - House-as-a-System - Building Systems - Construction Errors - Air Quality and Moisture - Combustion Safety - Air Leakage - Energy Audits 	<ul style="list-style-type: none"> - RESNET Standards Overview - Thermal and Pressure Boundary - Evaluation - Airsealing and Denspack Techniques - Prioritizing Airsealing Work - Insulation Techniques and Applications - Windows and Door Inspections - Ventilation Requirements and Systems 	<ul style="list-style-type: none"> - Audit Inspection - Blower Door and Manometer Analysis - Weatherization Measures - Home Measurement and Sketching - Energy Modeling – Data Collection 	<ul style="list-style-type: none"> - EEM and EIM Mortgages - Code of Ethics - ENERGY STAR - Energy Modeling – REM/Rate 	<ul style="list-style-type: none"> - Finish and Review Energy Modeling - Exam Review <p style="text-align: center;">Students take the RESNET National Rater Core Test</p>
				