

1-5-2010

## RESNET RATER CLASS CURRICULUM

The class runs 5 days, 3 days book work preparing for the test, and 2 days field and equipment work along with 2 supervised ratings. The class fee also includes your first 3 probationary ratings. The book work includes:

- 1) Home Energy Rating Overview
  - a. An introduction to energy audits and important definitions
- 2) Fundamentals of Energy
  - a. The principles underlying comfort, heat flow, air flow and moisture flow.
- 3) Energy Flow Basics
  - a. Measuring energy flow and how benchmarks are set.
- 4) Building Shell
  - a. Defining of the conditioned envelope.
- 5) Insulation
  - a. Insulation types, performance, and installation
- 6) Windows and Doors
  - a. Window types, efficiency and heat transference.
- 7) Heating Systems
  - a. Mechanical equipment.
- 8) Cooling strategies & Equipment
  - a. Cooling mechanical equipment.
- 9) Water Heating
  - a. Water heating and distribution.
- 10) Air Leakage
  - a. Set up and testing the conditioned space.
- 11) Ventilation & Indoor air quality
  - a. Mechanical ventilation.
- 12) Lights & Appliances
  - a. In home plug loads and the energy ramifications.
- 13) Documenting Buildings
  - a. Performing ratings from home plans.
- 14) Utility Rates
  - a. Reading and understanding utility bills.
- 15) EnergyStar and IRS Tax Credits
  - a. Understanding current and future incentives.

From an equipment training standpoint you will get hands on experience with:

- 1) Blower Door™
- 2) DG 700

- 3) Duct Blaster™
- 4) TecTite™
- 5) Rem/RATE™

The course material includes:

- 1) Study manual
- 2) Residential Energy 5<sup>th</sup> addition Cost savings and comfort for existing buildings
- 3) REMRate Field Data collection form
- 4) 60 Day Trial of REMRate
- 5) Geometry Review
- 6) EnergyStar™ documentation
- 7) Equipment manuals
- 8) RESNET documentation including Code of Ethics

You are asked to bring the following to the class:

- 1) Pencils
- 2) Pens
- 3) Highlighter
- 4) Laptop (This is needed to run the software and take the test)
- 5) Notepad
- 6) Tape Measure
- 7) Self-Stick Markers