



# HERS Rater Training

## Field Syllabus Part 1: Course Information

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### Instructor Information

**Instructor(s):** EnergyLogic Staff or a Qualified Proxy Trainer

**Location:** Various Please check with EnergyLogic Schedule

**Class Hours:** 8:00am – 5:30pm daily

**E-mail:** [info@nrglogic.com](mailto:info@nrglogic.com)

### Prerequisites

In order to join EnergyLogic or a proxy trainer for the field portion of training you must complete:

- EnergyLogic Online HERS Rater Training
- Pass the National Exam\*
- Complete an Equivalent Training\*

\*These prerequisites may require additional training from EnergyLogic at your expense. EnergyLogic will evaluate your prerequisites on a case by case basis.

### Course Description

The field portion of HERS Rater Training is 3 days of field training designed to introduce the HERS Rater inspection processes and diagnostic testing. There will be an optional 4<sup>th</sup> half day for students to prepare for and take the RESNET National Rater exam.

During the field training we will complete 2 practice ratings according to the RESNET training standard. Practice ratings will be performed on an existing and new home. In addition, students will have an opportunity to complete a pre-drywall inspection.

This is an instructor facilitated course. Students will have one-on-one instruction on the testing equipment. Much of the field work will be

done in a group setting where peer to peer interaction is used to complete the practice ratings. The course will provide each student ample time to have hands on experience with the diagnostic equipment. By the end of the course each student will receive equipment certification for the Blower Door system and Duct Blaster system. This will be a one-on-one evaluation with an instructor to measure the students' competence with the testing equipment.

## Textbook & Course Materials

### Required Materials

- EnergyLogic Field Workbook
- Tape Measure
- Hard Hat & Respirator
- Clipboard
- Architect Scale or Ruler
- Pencil
- Shoe Cover(s)
- Computer

### Recommended Text

- Energy Auditor Field Guide – John Krigger and Chris Dorsi ◦  
<http://srmi.biz/bookstore/field-guides/>
- Builder's Guide "to your climate" – Joseph Lstiburek ◦  
<http://www.buildingsciencepress.com/%2FBuildersGuide-to-Cold-Climates--P1.aspx>
- Insulate & Weatherize – Bruce Harley ◦  
<http://www.tauntonstore.com/build-like-a-pro-insulateand-weatherize-bruce-harley-070649.html>

## Course Requirements

Students are required to attend every class for the entire scheduled time. Students will be evaluated in one on one session with the course instructor for competency using the diagnostic equipment. To successfully pass the course students must receive the certification on the equipment.

## Course Structure

This course will be delivered using a combination of classroom presentations and field work. In addition, students will have access to the EnergyLogic Academy. The EnergyLogic Academy will have online lessons, course materials, and resources.

## Course Structure (Continued)

The course will be delivered over 3 days with an optional fourth day to prepare for and take the RESNET National Rater Exam. Please make sure to review the schedule posted on the EnergyLogic Academy course page for details on dates and times.

The first day of training will be dedicated to labs. We will do a brief classroom presentation on the principles of diagnostic testing. That will be followed by a blower door lab where the instructor will demonstrate proper use of the blower door system. Next will be a pressure diagnostic lab followed by a duct blaster lab. In each of the lab sessions students will get an opportunity to have hands on time with the equipment.

The second day will be our first practice rating. This will be completed on an existing home. Students will gather data in groups during the morning session. While students are gathering data the instructor will have one-on-one coaching sessions with each of the participants in the course. During this one-on-one session the student will setup and run the blower door and perform pressure diagnostics. The student will then interpret the data provided by the diagnostic test with the instructor.

In the afternoon of day one the group will work together to perform take-offs from their field sketches and create a REM/Rate file for the house. During this group session each participant will be tested and certified using the blower door system.

During the third day we will complete a practice rating on a new home. In the morning we will perform a pre-drywall inspection. This will be followed by an identical structure to day 2, except the equipment coaching and certification will be for the duct blaster system.

There will be an optional fourth day of training. This will be a half day in the morning. During this session we will have a study group discussion followed by the RESNET National Rater Exam.

The EnergyLogic Academy

# HERS Rater Training

## Field Syllabus

### Part 2: Course Objectives

The field portion of HERS Rater Training is designed to give participants in depth training on the processes and diagnostic equipment required to complete a home energy rating.

#### Objectives:

1. To develop a full understanding of measuring and inspecting a home for home energy ratings.
2. To develop competency using the manometer.
3. To develop competency using the blower door system.
4. To develop competency using the duct blaster system.
5. To complete 2 practice ratings.

You will meet the objectives listed above through a combination of the following activities in this course:

- Review the blower door, duct blaster, and pressure diagnostic modules prior to attending class □ Participate fully in the labs.
- Engage in the one-on-one coaching with the instructors
- Assume a leadership role when necessary: voluntarily help other students when you have knowledge they don't have. □ Approach the course with a desire to learn □ Complete the practice ratings.

# HERS Rater Training

## Online Syllabus

### Part 3: Topic Outline/Schedule

**Important Note:** Refer to the course calendar for specific meeting dates and times. If you have any questions, please contact your instructor.

Diagnostic Labs	
Day 1	Instruction
8:00:00 AM	Classroom -- Week outline, expectations, introductions
9:00:00 AM	Classroom -- Principles of Diagnostic Testing
10:00:00 AM	Blower Door Lab
11:00:00 AM	Blower Door Lab
12:00:00 PM	Lunch
1:00:00 PM	Duct Blaster Lab
2:00:00 PM	Duct Blaster Lab
3:00:00 PM	Pressure Diagnostic Lab
4:00:00 PM	Pressure Diagnostic Lab
5:00:00 PM	Wrap-up

Existing Home	
Day 2	Instruction
8:00:00 AM	Final Inspection & BD/PD Testing Practice
9:00:00 AM	Final Inspection & BD/PD Testing Practice
10:00:00 AM	Final Inspection & BD/PD Testing Practice
11:00:00 AM	Final Inspection & BD/PD Testing Practice
12:00:00 PM	Lunch
1:00:00 PM	Take offs & REM Input & Blower Door Certification
2:00:00 PM	Take offs & REM Input & Blower Door Certification
3:00:00 PM	Take offs & REM Input & Blower Door Certification
4:00:00 PM	Take offs & REM Input & Blower Door Certification

5:00:00 PM	Wrap-up
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The EnergyLogic Academy

**Part 3: Topic Outline/Schedule (Continued)**

New Home	
Day 3	Instruction
8:00:00 AM	Rough Inspection
9:00:00 AM	Field -- Practice Rating 2, DB Practice
10:00:00 AM	Field -- Practice Rating 2, DB Practice
11:00:00 AM	Field -- Practice Rating 2, DB Practice
12:00:00 PM	Lunch
1:00:00 PM	Take offs & REM Input & Duct Blaster Certification
2:00:00 PM	Take offs & REM Input & Duct Blaster Certification
3:00:00 PM	Take offs & REM Input & Duct Blaster Certification
4:00:00 PM	Take offs & REM Input & Duct Blaster Certification
5:00:00 PM	Wrap up

Testing (Optional)	
Day 4	Instruction
8:00:00 AM	Test Review
9:00:00 AM	Test Review
10:00:00 AM	RESNET National Exam
11:00:00 AM	RESNET National Exam
12:00:00 PM	
1:00:00 PM	
2:00:00 PM	
3:00:00 PM	
4:00:00 PM	
5:00:00 PM	

# HERS Rater Training

## Field Syllabus

### Part 4: Grading Policy

#### Successful Completion of Course

Successful completion of the field training portion of Rater training is two parts. First, you must pass the equipment certification process with an instructor. This will be a one-on-one session to demonstrate your proficiency with the equipment.

The second part of completing your field training is submitting your practice ratings to your instructor. The instructor will evaluate your rating for accuracy and provide feedback on improvements. Once the practice ratings meet the satisfaction of the instructor you will have met this requirement.