



## Level 1 Certification Course

### 24 HOURS OF TOTAL TRAINING

### LEVEL 1 - DIAGNOSTIC HOME ENERGY SURVEY PROFESSIONAL (HESP)

This 24 hour course will prepare the student for the RESNET Home Energy Survey Professional (HESP) Certification Exam. This course covers all the foundational building energy and construction science to begin a career as a home energy professional. **A Level 1 HESP** is qualified to perform a walk-through assessment of the general energy performance problems and make basic recommendations for improvements or further analysis.

## COURSE DESCRIPTION

### Topics covered include:

- Calculating gross and net areas
- Definitions, Energy terminology and Energy Units
- Basic Combustion Appliance concerns
- HET Institute's Home Energy Report Software
- Determining thermal boundaries
- The House as a System
- Determining HVAC, appliance and window/door efficiencies
- Determining shading and building orientation characteristics
- Basics of heat transfer concepts, Building performance testing and Air distribution leakage
- Basics of envelope leakage, thermal bypass and thermal bridging
- Determining envelope insulation, quality and recommended levels by climate zone
- Basics of measure interaction, expected life and bundling for optimal performance
- Minimum Home Energy Survey inspected features and report requirements

### **COST**

**\$499**

The RESNET HESP exam fee is an additional **\$50**

### **BENEFITS OF THE COURSE**

At the end of the course, students will be ready to sit for the RESNET Home Energy Survey Professional Certification Exam

### **WHO SHOULD ATTEND?**

Home inspectors, home repair or construction contractors, those interested in a new career

### **WHAT WILL YOU RECEIVE**

The course materials include the course study guide, a copy of Residential Energy by Krigger and Dorsi and practice exam questions.

## LEVEL 2 - DIAGNOSTIC HOME ENERGY SURVEY PROFESSIONAL (HESP)

Add two additional days to the Level 1-HESP Certification Course and attain Level 2-Diagnostic HESP Certification. If your initial goal is to offer more in-depth home performance surveys, you will need to add these additional two days that will cover the nuts and bolts of Building Pressurization Testing. In addition to the Level 1 essentials, students will learn how to determine the effective leakage area and air exchange rate of a building using a blower door, how to calculate duct leakage utilizing a duct blaster.

The combined 5-day course covers the all the HESP energy and building science fundamentals plus the pertinent envelope testing requirements contained in Chapter 3 and Appendix A of the RESNET National Energy Rating Technical Standards, ASHRAE Standard 119 Section 5.1 and the application of Standard 152 for testing of ducted distribution systems.

### COURSE DETAILS / AGENDA

#### Diagnostic testing topics include:

- Blower Door System Components
- Installation for Depressurization
- Setting Up the Building for Testing
- Conducting a Depressurization Test
- Combustion and Safety Features
- Calibration and Maintenance
- Testing for Duct Leakage & Pressure
- Basic Test Results
- Pressurization Testing
- Finding Air Leaks
- Using Flow Rings
- Duct leakage testing

### BENEFITS OF THE COURSE

Successful completion and passing of the exams will qualify the student for certification as a Diagnostic Home Energy Survey Professional. Upon achievement, the student will be competent to begin a career performing Diagnostic Home Energy Surveys utilizing blower door and duct blaster diagnostic tools.

**TUITION FOR THE COMBINED  
5 DAYS COURSE IS \$795**

There is an additional **\$50** fee for the RESNET Home Energy Survey Professional Certification.

#### COURSE MATERIALS

Retrotec Blower Door Manual and practice exam questions.

#### WHO SHOULD ATTEND?

Auditors, Home Inspectors, HERS Raters, Home Repair or Construction Contractors, those interested in a new career

#### PRE-REQUISITE REQUIREMENTS

Home Energy Survey Professional, Level 1 Course

For more information, contact **John Miller** at 760-987-1672 or **Derrick Chapman** at 818-687-1323