



2013 RESNET Building Performance Pre-Conference Sessions

ONE DAY COURSES

(PRE-1) Designing, Implementing and Managing an Efficiency Program

This course is designed for Utility and Government employees who are involved in efficiency programs. This workshop will discuss the factors involved in designing a program, best ways to implement the program and the keys to managing it effectively. Topics will include:

- New construction and existing homes programs
- Community outreach programs
- Individual measure vs whole home performance
- Budgeting, contractor training, stakeholder relationships and more.

Suggested Presenters: David Reed

(PRE-2) EnergySmart Contractor Training

EnergySmart Contractor/Builder training is designed to help contractors and builders acquire the knowledge and training to complete energy efficient retrofits and building projects in a safe and efficient manner. This 8-hour course is preparation for an exam that will be administered by RESNET for the EnergySmart Contractor designation.

Training Objectives:

Once you've successfully completed this course, you will be able to:

- State the purpose of the EnergySmart Contractor, and explain where this role fits in the larger process of energy efficiency remodeling.
- Explain the importance of treating the house as a system of interactive parts.
- Define the purpose of energy auditing, being able to communicate this to customers.
- List at least 5 typical energy efficiency home improvements and prioritize them.
- Describe the process required to create a work scope of improvements.

Suggested Presenters: Ethan MacCormick, Emelie Cuppernell

(PRE-3) WaterSense Inspector Training

WaterSense is a partnership program sponsored by the US EPA to promote water-efficient products and practices across the country. The WaterSense label makes it easy to find products and services that save water while ensuring performance. The US EPA created WaterSense to help protect the future of our nation's water supply.

Because residential water use accounts for more than half of the publicly supplied water in the United States, WaterSense has a specification for single-family new homes that use 20% less water than a typical new home. A WaterSense labeled home is a marketing tool that can help new homeowner's save water now, pay less for utilities every month and protect resources for future generations.

Becoming a WaterSense Inspector is the first step to helping your builders build water efficient homes. This training will enable you to become a WaterSense Inspector. By partnering with a WaterSense Licensed Certification Provider, you will have the ability to certify homes for the WaterSense program.

The cost for the full day class is \$300. Upon completing this class, you will earn a certificate of completion which will enable you to begin your probationary inspections as a WaterSense Inspector.

Suggested Presenters: Carissa Sawyer

TWO DAY COURSES

(PRE-4) 2012 IECC Fundamentals

Official ICC International Code Council Curriculum developed by the ICC Training and Education Department. Two Day class in which attendees will learn how to apply the 2012 International Energy Conservation Code and how to increase and ensure that energy efficiency is built in during the construction of new buildings and during alterations to existing buildings. Residential, Multi-Family, Commercial, and Mixed Use buildings will all be covered. The course will provide an overview of the critical concepts included in the 2012 IECC. By learning and understanding these concepts, attendees will be provided the knowledge base needed for the correct use of the code in the design, plan review, inspection and analysis of projects. Also, the course will provide a clear understanding of the requirements identified in the basic code provisions, tables, and categorizations within the 2012 IECC. Participants will also be able to apply the code in clear-cut situations and to build their understanding of the intent of the code when asked to make code compliance decisions. This course trains and prepares the attendees to take the ICC Energy Certification test with ICC's testing provider.

Suggested Presenters: Terry A Collins

(PRE-5) EEM HERS Rater Partner Course

Energy Efficient Mortgage (EEM) Partner Training for HERS Raters: This two-day course will properly prepare HERS Raters to complete the entire process of each type of Energy Efficient Mortgage. It will cover topics such as: FHA, VA, and conventional guidelines, Existing home and new construction EEMs, Completing an EEM step-by-step, Proper documentation and report requirements, How to use REM/Rate effectively, Working with lenders and real estate agents, Case studies of new purchases and refinances, Marketing ideas and strategies. Plus, you will get tools and materials that will simplify the process and minimize your turn-around time which is critical to your success, and the success of your clients. After completion of this course, you will receive an EEM Partner designation, and you will be prepared to facilitate EEMs from start to finish and confidently add this underutilized product to your range of services.

Suggested Presenters: Jason Payne

(PRE-6) HERS Raters Round Robin

During the RESNET 2012 Conference in Austin, a presentation by David Hales, Mike Lubliner, and Duncan Pahl presented "round robin" results from various home performance contractors inspecting and developing work scopes recommendations for the same home. There was considerable support from the session audience regarding the value of this type of information and general support to continue round robin efforts at RESNET in 2013.

The goal of the proposed session is to pre-test draft round robin guidelines that focus on energy inspection and work plan development. A number of home performance contractors with experience in the local retrofit market, will be recruited to conduct ratings on a single existing home in the Orlando area. Results will be analyzed and used to support education and QA efforts to RESNET and other industry stakeholders.

The session will support a collaborative research grant between the Washington State University Extension Energy Program (WSU) and the National Institute of Standards and Technology (NIST). WSU will work with RESNET to assist in recruiting local "HERS raters" to participate, prior to the conference.

Suggested Presenters: Michael Lubliner (session coordinator), David Hales (oversee raters at field testing), Andy Gordon

(PRE-7) Homes 401 LEED for Homes Green Rater Training

The LEED for Homes program has a total of 80,000 registered residential units and over 21,000 certified as of June 2012. The program has grown with increasing pace over the past year. All registered LEED for Homes projects must have a LEED for Homes Green Rater on the verification team and HERS Raters are ideal professionals to conduct the required performance testing and verify the home's green measures. LEED for Homes Green Raters must meet professional eligibility qualifications, participate in the Green Rater Training, and pass an assessment before verifying LEED for Homes projects. Once in the field, they complete a mentorship before earning their certificate. The result: A strong credible program supported by arguably the most qualified, competent and successful green raters in the industry. Join us for the 2 day workshop portion of the training. Upon (and included) in registration, you will receive access to 5 online learning modules that must be completed before arriving to the workshop portion. Join hundreds of your colleagues in becoming a LEED for Homes Green Rater!

Suggested Presenters: USGBC Faculty

(PRE-8) IR for Weatherization & Energy Audits

This 2-day class is designed for energy auditors, weatherization contractors and home performance professionals who use thermal imaging or are considering adding the technology to their program. IR for Weatherization and Energy Audits will meet the needs of any building thermographer that is using infrared to inspect residential buildings for insulation defects, air leakage problems and moisture related issues. Courses are open to all models of thermal imaging equipment. There are several hands-on simulations and exercises built into the course. While owning an infrared camera is not required for attendance, participants are encouraged to bring their cameras to class. Completion of this course prepares students to successfully apply infrared technology to residential energy audits.

Suggested Presenters: Matt Schwoegler

(PRE-9) Two day boot camp--marketing and pricing

The Business as a System:

Exploring the art of Positioning, Pricing and Proposing in the Home Performance business in a linear, logical manner. What will we explore? What your competition may already know?

Day One

Mike- Introductions, How to determine a fair price

Peter- Internet; Your E-Sales Force, Tracking leads

Wally- Blogging and filming your way into a sphere of influence, Canned releases; timing, media and content, An ongoing dialogue

Mike- Traditional marketing opportunities, How the weatherization/rehab agency finds contractors

Mike, Peter, Wally---Marketing Planning Session in Groups

How many inquiries do you need per; day/week/month/year, How to boost inquiries during those off-peak periods of demand, How to create a plan to establish/maintain your presence in the marketplace, Developing a realistic budget

Day Two

Mike—Review of Day One—sharing “a ha’s”

>>>Wally’s virtual business<<<<<

The Prospective Customer Questionnaire, Appointment setting, Selling the Test, Realistic expectations for the first visit, NeuroLinguistic Programming (NLP), Getting inside your prospect’s head

Mike- Real Contractors Ask Questions, Preparing Price and Proposal at the Kitchen Table, Today’s tools, Unit Cost Estimating, Computer Aided Drafting , Portable Printer, Laptop or Tablet, Winning the Job, Overcoming low-priced competition, Keeping the Profits, Compensation strategies for production workers

Suggested Presenters: Mike Gorman, Peter Troast, Wally Conway

HALF DAY COURSES

(PRE-10) Advanced Envelope Diagnostics

You owe it to yourself to quickly and easily pinpoint air leakage and insulation problems with 100% accuracy. Develop a masterful clarity in your diagnostic data, and make the most efficient use of your valuable time in your clients' homes. In this 4-hour course, learn to quickly and effectively use the blower door for more than just a CFM50: rock that house with Zonal Pressure Testing, Infrared Thermography, Pressure Panning, Chemical Smoke, and more, to map out the exact prioritization of opportunities for improvement. And establish how best to explain the test results to your clients. Don't sit back and let somebody else show you up- PROVE you can find the problems, and that you solve them!

Suggested Presenters: Corbett Lunsford, Scott Suddreth

(PRE-11) Advanced HVAC Diagnostics

Home Performance Professionals must be competent at analyzing HVAC systems; this course is designed to tackle multiple test methods to help you become the expert. You'll perform total system air flow testing using a pitot tube, TruFlow Plate, pressure matching, and temperature rise; determine the ACTUAL system capacity in Btuh; run a totally non-invasive A/C superheat and subcooling test with only thermometers; and become a master at sussing out duct leakage testing problems and localize leakage sites.

Suggested Presenters: Corbett Lunsford, Dennis Stroer

(PRE-12) Best Practices for the Building Thermographer

Learn how to get more out of your infrared camera as we review the basic principles of IR equipment operation, heat transfer theory, and building applications during this 4-hour pre-conference workshop. This session includes a number of live demonstrations and will cover tips and best practices on using infrared to conduct a thermal analysis of a building envelope. Participants will get answers to any questions they may have regarding the operation of an infrared camera and will see how IR is best applied to residential inspections including areas where the technology may prove challenging to use. The Snell Group is a vendor-neutral infrared training provider that does not manufacture or sell equipment.

Suggested Presenters: Matt Schwoegler, Ron Conner

(PRE-13) HERS 101

Many individuals attend the RESNET Conference to determine whether they will enter the rating industry. Many of the sessions offered in past conferences are a bit too high in jargon and assumed knowledge for persons just entering the rating industry. This session will introduce a beginner to the rating industry and provide a context for the other more advanced sessions to be offered at the conference.

Suggested Presenters: Abe Kruger

(PRE-14) Indoor airPLUS

EPA created the Indoor airPLUS certification to help builders meet the growing consumer preference for homes with improved indoor air quality. Additional construction specifications are designed to help improve indoor air quality in new homes. This training gives raters the skills they need to understand and complete Indoor airPLUS ratings. The Indoor airPLUS Program is a partnership between EPA, builders, raters and other allies to improve indoor air quality in new homes. Homes with the Indoor airPLUS label include more than 30 additional home design and construction features to help protect homeowners from a host of health problems associated with poor indoor air quality, including eye irritation, allergies, headaches and respiratory problems such as asthma. All Indoor airPLUS qualified homes also meet guidelines for energy efficiency set by ENERGY STAR®, the nationally recognized symbol for energy efficiency and can be used in lieu of the Water Management Builder Checklist for ENERGY STAR 3.0.

This would be offered as a half-day pre-conference session.

Suggested Presenters: Ethan MacCormick, Emelie Cuppernell

(PRE-15) Meeting ASHRAE 62.2 2010 - Practical Application

Join Skye Dunning, Bruce Manclark and Dan Wildenhaus in a half-day session on the tips, tricks and real world challenges of meeting ASHRAE 62.2 2010. Skye will bring his knowledge of the south east and east coast, while Dan and Bruce will represent the north and west climate zones. Part presentation, part hands on training with controls, designs, calculations and installation on the new challenges faced in ventilating energy efficient homes.

Suggested Presenters: Bruce Manclark, Skye Dunning, Dan Wildenhaus

(PRE-16) Performing Multifamily HERS Ratings

Congratulations, you've landed a big multifamily project! Now the only thing you have to do is figure out the HERS Rating. Even for experienced HERS Raters the first multifamily Rating can be an intimidating endeavor. This session will cover the ins and outs of multifamily building level and unit level HERS Ratings. During the session we will rate a sample project from plans as a group and go through the process of selecting the "worse case" units. We'll cover how to address common areas, elevator shafts, commercial spaces, adjacent structures, party walls, duct leakage testing, and numerous others. This session is conducted to by two HERS Raters/Quality Assurance Designees (QADs) with nearly 15 years combined Rating experience and will show students hands-on experience doing a rating on a multifamily project.

Suggested Presenters: Abe Kruger, Glenn Pease

(PRE-17) REM/Rate Advanced Training

This session is specifically designed for those who have previous experience using Architectural Energy Corporation's REM/Rate home energy rating software. The session will be led by V. Robert Salcido, P.E, a Senior Engineer at AEC who has been involved with development of REM/Rate for over 12 years. The session will cover new features as well as the more obscure features of the software -- custom reporting, utility bill disaggregation, batch processing, library management, improvement analysis and more. If you've always had the feeling that you're not using REM/Rate to its full potential, or if you have specific questions about the software, you shouldn't miss this session.

Suggested Presenters: Robert Salcido, Brian Christensen

(PRE-18) Sketchup for Raters

SketchUp is a powerful free graphic modeling tool developed by Google. EnergyLogic has successfully adopted SketchUp to streamline the from-plans rating take-off process for our clients. It has proven to be a strong tool when reviewing probationary ratings and performing quality assurance. This training is designed to familiarize you with SketchUp tool and provide you with practice designing a model using the tool. Then we will use the scripts developed by EnergyLogic to generate a report designed for easy input into REM/Rate. Using SketchUp will improve your speed and accuracy in performing take-offs.

The price for this training is \$250.00 Bonus: The scripts are included with this course. To download the scripts you will need to register for the training at the website below.

This course is designed for HERS Raters or other energy professionals with equivalent experience with energy modeling. It has been specifically designed to help complete take-offs for quick from-plans rating data collection.

<http://energylogicacademy.com/course-descriptions/professional-development/sketchup-training/>

Suggested Presenters: Glenn Pease