



ABOUT US

LRCC ENERGY PROGRAMS

Be part of the new green economy with sustainable energy programs at Lakes Region Community College

Lakes Region Community College is a leader in energy education and training. Through both degree and short-term programs, LRCC is training New Hampshire's energy leaders, with multiple benefits:

- Lower energy bills
- Green jobs
- Comfortable, durable buildings

LRCC's two-year **Energy Services and Technology** degree program provides students with knowledge and skills to excel in the rapidly expanding field of energy management. LRCC offers 17 EST credit-bearing courses, and has exemplary facilities including the one-of-a-kind Energy Simulator.

www.lrcc.edu/energy



Student using an IR camera inside EST Energy Simulator

LRCC's short-term **Efficiency Training Program** offers professional energy efficiency trainings, BPI certification, expert mentoring, workshops and many other programs. Those who begin with an **ETP** workshop can continue with in-depth EST coursework. www.lrcc.edu/energy/training



379 Belmont Road • Laconia, NH 03246

LAKES REGION Community College
Efficiency Training Program
379 Belmont Road
Laconia, NH 03246

ETP

Lakes Region Community College

EFFICIENCY TRAINING PROGRAM



EFFICIENCY TRAINING PROGRAM

TRAINING OVERVIEW

The **Efficiency Training Program** at Lakes Region Community College offers a variety of professional workshops, including:

- BPI Building Analyst
- Weatherization Installer with BPI certification
- BPI Envelope Professional
- Infrared for Weatherization
- BPI Manufactured Housing
- TREAT Energy Modeling
- Fast-track BPI certification

LRCC and partners Plymouth Area Renewable Energy (PARE)—www.plymouthenergy.org) and the New Hampshire Division of Economic Development work closely to offer these **ETP** programs.

ETP also offers other opportunities for professionals and do-it-yourselfers including:

- Professional mentoring
- DIY "House Warmings"
- Energy equipment rental programs
- Programs for Realtors, builders and other allied professionals
- Workshops for homeowners and civic groups

ETP also allies with other colleges in the Community College System of NH, BetterBuildings NH, Sustainable Energy Resource Group, Button Up NH, electric and natural gas utilities, Keene State College, and many other groups to offer quality energy efficiency training programs.

Funding from the NH Public Utility Commission's Greenhouse Gas Emissions Reduction Fund enables these **ETP** programs to be offered at a substantially discounted tuition for participants.



CERTIFICATION

BUILDING PERFORMANCE INSTITUTE CERTIFICATION



The not-for-profit Building Performance Institute is transforming the energy efficiency field by setting high standards for energy auditors and contractors. Homeowners, utility programs and government agencies demand BPI certified professionals. LRCC's **Efficiency Training Program** works closely with BPI to offer training and BPI certification testing programs throughout the region.

LRCC is one of the largest BPI Test Centers in northern New England, offering four different BPI certifications:

- Building Analyst
- Air Leakage Control Installer (RBE-WH-ALCI)
- Envelope Professional
- Manufactured Housing Professional

LRCC will be offering BPI's new Home Energy Professional certifications as they become available.



AFFILIATE ORGANIZATION

www.bpi.org
"We set the standard"

INFORMATION

EXPERT INSTRUCTION

ETP has a network of seasoned energy professionals throughout New Hampshire who hold trainings, provide mentoring and proctor BPI certification tests. The **Efficiency Training Program** at LRCC is run by Andy Duncan, Ph.D., who has multiple BPI certifications and extensive energy efficiency experience.

DISCOUNTED TUITION

GHGERF grant funding allows **ETP** offer these trainings to more participants at lower costs. The NH Job Training Fund and the Workforce Investment Act (WIA) can further reduce the cost of training for eligible participants.

CONVENIENT LOCATIONS

ETP programs are held around the state, from Berlin to Nashua and Lebanon to Portsmouth.

CUSTOM TRAINING PROGRAMS AVAILABLE

FOR MORE INFORMATION
Lakes Region Community College
Efficiency Training Program
379 Belmont Road
Laconia, New Hampshire 03246

Andy Duncan, Energy Trainings Manager
603-524-3207 ext. 6629
aduncan@ccsnh.edu



s and inspectors.

The Building Analyst energy auditor and Weatherization Installer courses will be taught by Andy Duncan from LRCC, and both include BPI certification testing. Amazing opportunity for Northern NH residents. Others may inquire about a waiting list if space is available -- contact BetterBuildings Berlin <mailto:cbadenhausen@NHCDFA.org>. Course attendance commitment required. Register through White Mountains Community College, Laurie Carrier, tel. 603-752-1113 ext. 3047.

Sponsored by Berlin BetterBuildings, City of Berlin, White Mountains Community College, and the Efficiency Training Program at Lakes Region Community College

Become a Home Energy (HERS) Energy Rater \$1,195

June 4-9 at Lakes Region Community College, Laconia

Includes comprehensive field and classroom sessions with hands-on equipment usage. Learn duct leakage and blower door testing. Includes two of the five required supervised ratings for HERS certification, and the National RESNET test.

\$1,495 training fee with online registration through the Northeast HERS Alliance <http://r20.rs6.net/tn.jsp?e=3D001Tz7qpJDY1KX1q4BkxTX-ajz3q-bNJETVspVb=w6ZmcTnE_0yoU9_OMKihDJneQYNiiKYaMzLIiEfwlkwK1ZgtXF9xJfeMaZjINEIESqW3AIYy=ujVNJlMH7gMZh3ilk> or e-mail Laurie DiDonato <mailto:laurie@nehers.org>. New Hampshire residents can get a tuition reimbursement of at least \$300 through the Efficiency Training Program.

Heating Systems Workshop \$195

June 20-21 at Manchester Community College

Learn to identify the different types of heating units, distribution systems, venting methods, water heaters, and wood pellet boilers. Learn about combustion theory, carbon monoxide, combustion & make-up air, and other topics. Attendees will gain practice recognizing various heating systems in an extensive lab. Taught by MCC HVAC Professor Emeritus Al Little and other heating experts.

Non-credit course # NCHV35 (CRN 30239) Register by phone 603-206-8160, or contact MCC Workforce Development Center <http://r20.rs6.net/tn.jsp?e=3D001Tz7qpJDY1KXmfHggvtX2DM2Yxy3I4PrFCg951Bi6eUXXgFEoWwHuyrjd1JxKCUkSmMICLnWM8x-Nv4qtOdABPkVlWdZlTYRchdaN0FHovP_ZclhAJnDGC8FRznYXY_zW>.

The Efficiency Training Program is a partnership with Lakes Region Community College (LRCC), NH Division of Economic Development (DED), and the Plymouth Area Renewable Energy Initiative (PAREI). The ETP program is funded in part from the Greenhouse Gas Emissions Reduction Fund (GHGERF) administered by the NH Public Utilities Commission.

BPI Affiliate Logo color <http://ih.constantcontact.com/fs028/1105980874903=/img/4.jpg>

LRCC Logo JPEG 122k <http://ih.constantcontact.com/fs028/1105980874903/img=/1.jpg>

LRCC - Constant Contact - Message; May 4, 2012
Hi Andrew

Lots of great energy training opportunities coming up, including a fantastic program for North Country residents.

Fast-Track BPI Building Analyst Certification \$625

Field Exam Review: Thursday, May 10

BPI BA Written Exam: Friday, May 11

BPI BA Field Exams: Week of May 14 - 18

A certification-only option for experienced energy auditors who are already familiar with BPI knowledge areas. For those with sufficient BPI CEUs, ask about the Fast-Track Field-Only re-certification option.

Course # LWKS 9024 (CRN 22320)

OSHA 10-Hour Construction Safety Training \$205

Monday, May 21 & Tuesday, May 22, 7:00 am - 12:00 noon

Covers a variety of safety and health topics that a worker may encounter on a construction site. Successful participants will receive an OSHA 10-hour DOL course completion card.

Course # LWKS 5590 (CRN 22343)

On-site custom OSHA-10 trainings also available.

Introduction to Photovoltaics \$648 (3 credits)

Wednesday evenings, May 23 - August 15

Includes electrical basis of PV systems, sizing, electrical and mechanical design, and troubleshooting problems. Electricity fundamentals prerequisite. NABCEP PV Entry Level exam option at the end of the course.

Course # LEST 1500 (CRN 30599)

To register call Lakes Region Community College at 603-524-3207, or visit <http://www.lrcc.edu> <http://r20.rs6.net/tn.jsp?e=3D001Tz7qpJDY1KU1cleUYuXwBN=FZwWXHUKIEWJnLSA1WqV1VT6blda8zOzjXDT5ok0YcSw_lr7TpKdiDuCmiKORowsupwF2ngFMpFp=Owmv3RvDLk=3D>

Courses with Registration Outside LRCC

The Efficiency Training Program is involved with variety of other courses:

North Country Residents- Train to Become an Energy Professional with Three Courses in Berlin:

How Buildings Work, May 10-11 \$100

BPI Building Analyst, May 16-18 & 22-24 \$200(!)

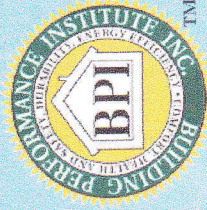
BPI Weatherization Installer, June 4-7 \$200(!)

All three courses for \$350 including BPI certification testing. Wow!!

Peter Yost will kick off with "How Buildings Work: The Basics of Building Science" a great introduction to the field for energy professionals, Realtors

For your sustainable energy education—
Lakes Region Community College

- © Efficiency Training Program—
throughout New Hampshire
 - BPI certification
 - Energy auditor and
weatherization workshops
- © Two-year Energy Services
and Technology Program



**AFFILIATE
ORGANIZATION**



Laconia, New Hampshire
603-524-3207

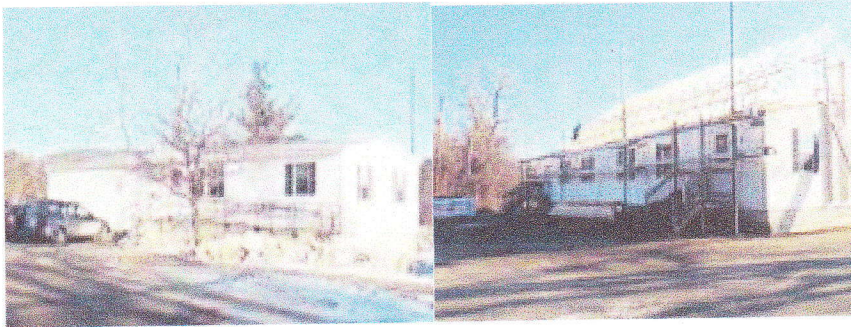


www.lrcc.edu/energy

PAREI event invitations – 2012 Q2 (Q6)

Event No. 1

ETP Sponsored Three Muddy Boots Tours/Presentations of the Plymouth Village Water and Sewer ARRA Funded Net Zero Energy Project



Before



During





Net Zero Energy Project - AFTER

Net Zero Energy Retrofit and Solar PV Installation Plymouth Village Water and Sewer District Office Building

**Corner of Old North Main Street and Route 3N (just south of the Common Man
Inn, Exit 26 I93)
Plymouth, NH**

A Tour of the Building's New Features

Plymouth Area Renewable Energy Initiative and the PVWSD would like to thank everyone that was involved in making the Net Zero Energy Demonstration Project take place here in the Town of Plymouth.

Funded by ARRA and the NH Energy Efficiency and Conservation Block Grant and made possible by the Town of Plymouth, this exciting construction project is finally complete and the results are in! From the middle of January, 2012 to the middle of February, 2012 the electric bill, that includes heating, was reduced from 4000 kWh in 2011 to

400kWh in 2012. In February of 2012 the building's electric bill showed a credit of 156kWh.

We will be presenting information on each of the building's new energy saving and energy producing features, the costs of the project, the energy savings expected and information on how you can implement these same measures in your own home.

Sponsored by the Efficiency Training Program, PAREI, Plymouth, NH

Event No. 2

Energy Improvements and Turn Cycle Solutions Demonstrate Spray Insulating





Over 20 homeowners came to the Campton Congregational Church to learn about DIY air sealing and insulating and Professional Spray Foam Insulating. Attendees got to see the church's basement that was insulated on that day.

May 16th 3:30 – 4:30pm Learn the Basics of Spray Foam Insulation at the Campton Congregational Church
Half mile north from Rte 175/Blair Road Intersection (Exit 27 off I-93)
(Info Session will take place outside in the Parking lot)

The Plymouth Area Renewable Energy Initiative and Turn Cycle Solutions will be conducting a one hour information session on 2-part spray foam. Quickly and easily, 2-part spray foam can be used to insulate large areas including entire basement foundations, crawl spaces, and attics. The one hour session will include information on Do-It-Yourself measures such as spot air sealing, a detailed discussion about larger 2-part spray foam projects with Turn Cycle Solutions to include costs & benefits, a brief hands-on use of the 2-part spray foam equipment, and a look at a finished professional job. Turn Cycle Solutions will be working to insulate the basement of the Campton Congregational Church. The project will include:

- (1) Installing a layer of plastic to cover the dirt floor
- (2) Filling the box sills with 3 inches of spray foam to create an R-value of 21
- (3) Covering the foundation walls with 2 inches of spray foam to achieve an effective R-14 value

Come and learn about 2-part spray foam!

For more information about this or other Efficiency Training Programs, contact PAREI at 603-536-5030 or emailzak@plymouthenergy.org

Event No. 3

How to Diagnose Basements for Air Sealing & Insulating

June 26th 5:30-7:00pm 17 Railroad Square in Plymouth

Where to begin? What to look for? What steps to take? What tools to use? Where to find materials?

The Plymouth Area Renewable Energy Initiative will be conducting a multi-day training class on how to diagnose **basements** for proper air sealing and insulating. Taught by a BPI certified Energy Auditor, this class will incorporate **basic building science** lessons including the importance of a well sealed and insulated basement, **benefits** of an improved basement (i.e. indoor air quality, home efficiency, comfort), a **checklist of steps** to accurately diagnose work that needs to be done, the chance to discuss **your own** basement (or a basement you are working in or know of) with the group, and the opportunity to **practice** the skills learned at a local business here in Plymouth.

This workshop will include one or two more sessions beyond the first evening. We are looking to keep this class to between 4-6 participants, so if you are interested we can hold a spot and incorporate your schedule into the logistics (date, time, etc). To RSVP and For more information, contact PAREI at [860-559-1488](tel:860-559-1488) or email zak@plymouthenergy.org

Sponsored by the Plymouth Area Renewable Energy Initiative's Efficiency Training Program. For more information about other Efficiency Training Programs, use the above contact information.

Event No. 4

Attention Contractors and Homeowners

Densepack Insulation Equipment and Installation Demo – July 25th Noon Plymouth, NH

Home of Steve and Charlene Whitman 23 Parker Street Plymouth, NH 03264
Drinks and Light Refreshments Provided

Come see first hand the steps it takes to dense pack walls and ceilings with an insulation blower. The Demo will include a discussion on air sealing and the steps, tools and materials needed to prep new construction or existing construction for densepacking. Some walls will be completed beforehand and some will be insulated during the demo.

This event is beneficial for homeowners and contractors looking to improve the R Value of walls and ceilings during new construction and renovation projects. All equipment used at the Demo is available through Rands Rental in Plymouth, NH.

This presentation is sponsored by PAREI's Efficiency Training Program and Better Buildings

(www.betterbuildingsnh.com)

No RSVP Necessary

For More Information call PAREI at 603-536-5030 www.plymouthenergy.org



NHRECOVERY
Putting new NHers where to work

