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Training Opportunities that Prepare You for A Successful Future

www.unitedwayli.org
Congratulations on taking the first step toward embarking on a fulfilling and impactful career in green construction. The E3 SmartBuild Training Center is open to the general public and is designed for anyone with an interest in beginning or advancing their education in the construction industry.

The E3 SmartBuild Training Center is the only one of its kind on the East Coast. At this state-of-the-art facility, students of any background can learn about building science, energy efficiency, and green construction – paving the way for a successful career. Made possible through a partnership with the United Way of Long Island and the New York State Energy Research and Development Authority (NYSERDA), the Center is training the workforce of tomorrow that will help build a sustainable and energy-efficient Long Island.

Training programs offered at the E3 SmartBuild Training Center include:

- Weatherization
- Green Building Practices
- Sustainability
- Certification Courses
- Energy-Related Training Opportunities

The E3 SmartBuild Training Center serves as the main hub for Vetsbuild cohorts as well as a key resource for YouthBuild students as they train to be self-sufficient and successful.

CEU Credits The Training Center is part of the Continuing Education Credits Program. See specific courses for additional information.

For the latest course information and class schedules:

www.unitedwayli.org/e3

www.unitedwayli.org
BPI/Healthy Home Evaluator

This course is a two day course for energy professionals to add healthy home services to their portfolio. A 50 question test is given on the second day. Prerequisite of holding current BPI Building Analyst or BPI Energy Auditor Certification.

Introduction to HVAC Courses

This training course will give the attendee an overview of HVAC Systems, its applications, parts and pieces and how to assemble the technology.

After returning home from the Army, I joined VetsBuild to learn how to construct green homes. After completing the training and knowing my past experience working on top of high buildings, my instructor connected me to employment in the solar field. – Englebert Benjamin, VetsBuild graduate, EmPower Solar employee since 2015


Principles of heat loss calculations and Wrightsoft modeling software, HRV/ERV systems.

Intro to Composite Technology

The incredible world of composites seems to have no limits! Students will design, test, use prototypes & train in a 25,000 sq. ft. training facility in Plainview, NY. Here they will be introduced to advanced manufacturing using composite materials such as carbon fiber, fiberglass, Kevlar, graphite, aramid and much more. This is a two day course which includes one Vaughn College credit, a basic one day course is also available without the college credit.

Advanced Manufacturing

Course includes an introduction to CAD/CAM and GCode for advanced manufacturing. Student will learn software, 3D printing and parts manufacturing.

“We are training a future workforce to build the next generation of housing. As an organization, we’re looking at what we’re building and who we’re helping. Building healthier, more comfortable, sustainable energy-efficient homes fulfills that mission.”

Theresa A. Regnante, CEO & President, United Way of Long Island

Many of these homes were build by students of the United Way of Long Island’s VetsBuild and YouthBuild Programs, transforming not only the homes, which benefit those in our community who really need it, but also transforming the lives of the students, by providing them with a career in which they can flourish.

For more information about the VetsBuild or YouthBuild Programs visit: www.unitedwayli.org
Intro to Home Performance and Weatherization: Basic Skills Course

Intro for Energy Retro Fit Installers
Introduction to building science principles. It includes hands on air sealing, dense packing and loose fill cellulose insulation installation. Trainees will learn the necessary techniques and methods to effectively weatherize customer’s homes.

Air Sealing Techniques
Quality air sealing comes from understanding the basics of building science principles. This course starts with an overview of stack effect, wind effect, laws of thermodynamics and high and low pressure air movement.

Home Performance Advanced Training Courses

Small Homes Auditing
This Home Auditor Training includes classroom presentations and hands on lab sessions. It is designed for new auditors and crew chiefs. The curriculum includes building science, client interaction, health and safety, heating and venting and computer modeling.

Advanced Air Sealing
This course is designed to target whole house air sealing strategies and techniques. Students will utilize blower doors, manometers, diagnostic smoke, pressure pans and thermal imagers to locate air leakage.

Certified Residential Infrared Thermographer
This course is a 2 day certification training for residential properties. It includes classroom and hands on training. This course will teach basic heat theory and application for all thermal work.

Insulation Equipment Maintenance
Learn how to maintain and perform routine repairs on insulation blowing equipment and portable spray foam units.

BPI Certification Training (Building Performance Institute)

BPI Building Analyst & Envelope Professional
The BPI energy auditor training course prepares individuals to understand the various components of building science, including combustion safety, blower door testing and energy analysis.

HEP/BPI Industry Professional Certification Courses

RetroFit Installer Technician
There is a prerequisite from BPI with work experience and the application to take the course has to be approved by BPI.

Crew Chief
There is a prerequisite from BPI with work experience and the application to take the course has to be approved by BPI.

“The need for a highly skilled home performance workforce is constantly growing which is why BPI certified professionals who are graduating from United Way of Long Island’s training programs are in demand now more than ever before” - Mathew Anderson, Director of Operations, BPI
High Efficiency Natural Gas

Equipment Training Courses

With years of training experience in the HVAC industry, the staff of Northeast Gas Specialists is proud to offer some of the best, most comprehensive training available today. The goal is to answer any questions, solve problems and help educate.

Basic Introduction to Natural Gas Safety
Make Up Requirements and Combustion Analysis
Carbon Monoxide Awareness
Venting
Ignition Systems & Troubleshooting
Conversion Burner Training
High Efficiency Wall Hung Boiler Technology

High Efficiency Combi Boiler Technology
Tankless Water Heating
Steam Heat Buderus*
Gas Heat General Maintenance
Preparing for a Utility Meter Set and Local Town Inspections
Installing Antifreeze Using a Refractometer
Intro to Residential Gas Piping

*Certifications Earned Bosch / Buderus Certifications
Buderus GB162 • Buderus GB142 • Buderus GC144 • Bosch Greenstar Combi
Bosch Greenstar FS Heat Only • Bosch Tankless
Wardflex CSST Certification All students successfully completing and passing certification test will receive certification cards required to work with this product directly from Ward Mfg.

Northeast Gas Specialists Training Certificates Certificates will be issued upon successful completion of any of these courses with a passing grade of 80% or better.
North American Technician Excellence Must have NATE certification to register for classes with this symbol.
Health & Safety Training

OSHA 10-Hour Construction Certification
OSHA 30-Hour Construction Certification
CPR/AED and First Aid Training

"Housing Innovation Award winners such as United Way of Long Island are leading a major housing industry transformation to Zero Energy Ready homes" - Sam Rashkin, Chief Architect
U.S. Dept. of Energy, Building Technologies Office

Intro to Green Building

Green Building Fundamentals
This course will give students the basic principles to Green Design and “house as-a-system”. This is a one day course.

BPI/BSP Building Science Principles
Building science demonstrates how various components of the home interact to affect the home’s overall performance, to understand the relationship between the building envelope, heating, A/C, insulation, mechanical ventilation, lighting, appliances and other systems of the home. Learn how all of these systems affect the comfort, health and safety of occupants and durability of the home.

Energy Star Version 3 Construction for New Homes
Learn the new guidelines which incorporate a host of cost-effective energy efficiency technologies and building science practices that will improve the efficiency, durability, and indoor air quality of ENERGY STAR certified homes.

Next Generation Housing

Building a DOE Zero Energy Ready Home
Upon completion, the attendee will have the knowledge to use appropriate energy modeling, air sealing and insulation, windows, mechanical equipment and closer attention to details to achieve a Net Zero or near zero energy home.

Advanced Framing and Optimal Valve Engineering (O.V.E.)
Learn to build hi-performance homes using less wood and more insulation with engineered products and systems.

Building Trades Apprenticeship Ready Program
Multi-Craft Core Curriculum (MC3)
The Multi-Craft Core Curriculum (MC3) is a comprehensive apprenticeship-readiness training program (120 hours), which was developed and approved by the Building Trades National Apprenticeship and Training Committee and recognized by the U.S. Department of Labor.