



**Ohio Weatherization Training Center & Ohio Center for Lead Abatement  
Course Descriptions  
2017**

**Accreditation:** Interstate Renewable Energy Council (IREC)

**Affiliate Training Provider:**

National Healthy Homes Training Center  
Great Lakes Regional OSHA Training Institute  
Midwest Solar Training Network

**Recognized Training Provider:**

U.S. Department of Energy  
Ohio Department of Health  
U.S. Department of Housing and Urban Development (HUD)  
U.S. Environmental Protection Agency (EPA)  
North American Technician Excellence (NATE)  
Building Performance Institute (BPI)

**Affiliate Test Center:**

Building Performance Institute (BPI)  
North American Technician Excellence (NATE)



**Continuing Education Provider:**

Building Performance Institute (BPI)

Ohio Construction Industry Licensing Board (OCILB)

**OWTC – Southeast Campus**

**1 Pinchot Lane**

**Athens, OH. 45701**

**740-594-8499**

**[www.coad.org/owtc](http://www.coad.org/owtc)**



### **ASHRAE 62.2/IAQ:**

In this one-day class, students will learn how to determine ventilation strategies for homes based on the number of permanent residents, their living style, and other issues within the house. The course covers the Ventilation Standard (*Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*) for U.S. Department of Energy requirements. Students will learn the calculations required by the ASHRAE 62.2 standard when working with existing homes, the testing and verification requirements of the standard, ventilation strategies, and installation techniques.

In addition to classroom training, a hands-on module is included which allows students to take measurements on a training house and determine the ventilation requirements for that home. Students also receive instruction and practice using a fan flow meter to verify spot and whole-house ventilation airflows on various ventilation strategies, including exhaust, supply, and balanced systems. *As of January 1, 2013, BPI will reference the ASHRAE standard 62.2-2010 Ventilation and Acceptable Indoor Air Quality in Low Rise Residential Buildings in all BPI standards and certifications, replacing BPI's current operating standard, ASHRAE 62.89.*

**NO PREREQUISITES**

**Classroom: 6 hours**

**Price per participant: \$180.00**

**Lab: 2 hours**

### **BLOWER DOOR USE (BDU):**

This two-day class is designed to instruct field personnel in the basic use of our most valuable tool, the Minneapolis Model 3 and Retrotec blower doors as well as pressure pan testing, connectivity testing and worse case draft testing. Students will spend time in the classroom learning and discussing the use of the blower door and then spend time infield implementing the knowledge they have gained.

**NO PREREQUISITES**

**Classroom: 8 hours**

**Price per participant: \$360.00**

**Lab: 8 hours**

### **BASIC WEATHERIZATION TACTICS (BWT):**

This three-day course introduces field personnel to basic weatherization practices and techniques.

**PREREQUISITES: BDU**

**Classroom: 12 hours**

**Price per participant: \$540.00**

**Lab: 12 hours**



### **COMBUSTION ANALYSIS FOR CONTRACTORS (COMB):**

A one-day class designed to provide the heating contractor with the necessary information to perform all residential heating system work per the U.S. Department of Energy Weatherization Assistance Program Standard Work Specifications (SWS).

Classroom discussions will include review of relevant SWS sections, the national codes, new furnace installation practices, furnace maintenance and repair requirements, combustion testing and health and safety issues.

CEU – 7 OCILB

**NO PREREQUISITES**

**Classroom: 5 hours**

**Price per participant: \$180.00**

**Lab: 3 hours**

### **CONSUMER ENERGY EDUCATION (CEE):**

The one-day class is designed to enhance communication techniques with a wide variety of consumers. This class will train the students how to educate and involve the people living in the home to participate within the energy efficiency process.

**NO PREREQUISITES**

**Classroom: 8 hours**

**Price per participant: \$180.00**

**Lab: 0 hours**

### **DUCT TESTING (DT):**

This ½-day class will help the student identify the severity and locations of leaky ductwork located in and throughout the structure and discuss methods for sealing ducts in a manner suitable to the particular situation.

**NO PREREQUISITES**

**Classroom: 3 hours**

**Price per participant: \$90.00**

**Lab: 1 hour**

### **ELECTRIC BASELOAD MEASUREMENT (EBM):**

EBM is a ½-day class that instructs students in the protocol of measuring electrical use in the home that is not heating and cooling related. Necessary tools and monitoring equipment will be used to measure usage and determine the cost effectiveness of replacing appliances that are energy inefficient.

**NO PREREQUISITES**

**Classroom: 4 hours**

**Price per participant: \$90.00**

**Lab: 0 hours**





### **HEATING UNIT INSPECTION (HUI):**

This is an intensive six-day course that will teach participants how to properly inspect heating units. Participants will learn to identify heating unit components, domestic water heater components, and the ability to inspect the units for efficiency and health and safety issues. Combustion testing will be practiced in the lab and classroom guidance will be provided in accessing and understanding combustion air issues as well how to properly size heating unit vent systems.

**PREREQUISITES: BDU, COST**

**Price per participant: \$1,080.00**

**Classroom: 24 hours**

**Lab: 24 hours**

### **INITIAL INSPECTION: (INSP)**

This four-day course introduces participants to techniques and equipment necessary to perform a thorough and accurate pre and post weatherization housing shell inspection. The prospective inspector learns efficient auditing techniques, including the importance of accurately using diagnostic equipment (blower door, infrared camera, baseload meter, digital camera, etc.). The participants then create work orders from virtual and real house situations.

Participants will learn quality control procedures, which ensure the thorough and effective installation of all specified weatherization measures. This quality control “final inspection” also includes a consumer education component to help the residents understand, and properly deal with the differences created by weatherization of their residence. Within 60 days after completion of the classroom and lab training, each participant receives a full day in-field follow-up with an instructor. This follow-up includes observation of an initial inspection, including heating unit inspection as well as a quality control final inspection.

**PREREQUISITES: INTRO INSP, BDU, ASHRAE, BWT, HUI**

**Price per participant: \$720.00**

**Classroom: 23.5 hours**

**Lab: 4.5 hours**

### **INFRARED THERMOGRAPHY (IR):**

Participants in this one-day class learn effective methods of assessing and auditing a structure for energy conservation measures. Diagnostic tools and equipment will be explained and then utilized in-field by the participants.

**NO PREREQUISITES**

**Price per participant: \$180.00**

**Classroom: 6 hours**

**Lab: 2 hours**

### **INSPECTOR SERIES REFRESHER (INSR):**

This three-day course serves as a recertification for experienced personnel as well as an outlet concerning new information and regulations. Hands-on labs and field exercises serve to reinforce and refresh the individuals on proper inspection procedures. Required every three (3) years.

**PREREQUISITES: INSP**

**Price per participant: \$540.00**

**Classroom: 18 hours**

**Lab: 6 hours**



### **MOBILE HOME WEATHERIZATION (MHWx):**

A three-day course during which the Weatherization of mobile homes will be taught in the classroom followed by two days in-field to give students the opportunity to install energy conservation measures to clients who live in manufactured housing. The students will be trained in and perform appropriate safety testing; perform repairs necessary for weatherization, health, and safety, and will install energy conservation measures.

**PREREQUISITES: BDU, BWT**

**Price per participant: \$540.00**

**Classroom: 16 hours**

**Lab: 8 hours**

### **NATIONAL ENERGY AUDIT TOOL / MOBILE HOME ENERGY AUDIT (NEAT/MHEA)**

This one-day class explains how the evaluation of homes to be weatherized can be facilitated by using NEAT, a Department of Energy approved residential energy audit tool. The NEAT classroom students learn the use of the computerized auditing tool that helps simplify the identification of measures that should be completed on the homes in the field. Savings-to-Investment Ratios (SIR) are calculated by the computer program to identify cost effective measures.

**PREREQUISITES: Basic computer literacy**

**Price per participant: \$180.00**

**Classroom: 8 hours**

**Lab: 0 hours**

### **OIL FURNACE MAINTENANCE REPAIR (OFMR):**

This two-day course addresses maintenance and repair procedures unique to oil-fired heating units. Participants will learn how to perform proper combustion testing techniques and how to evaluate these tests to achieve clean energy efficient operation. Lab time will include disassembly of a burner, cleaning and adjusting, re-assembly and firing. Classroom discussions will cover the requirements of state and national codes.

**PREREQUISITES: HT, HUI**

**Price per participant: \$360.00**

**Classroom: 4 hours**

**Lab: 12 hours**

### **WORST CASE DRAFT (WCD)**

This one day course provides crew members/retrofit installers/technicians with the background necessary to implement measures related to the combustion equipment in a home and ensuring that appliances are working properly and safely and further how weatherization of a home can impact the safe operation of appliances; ensuring atmospheric appliances draft properly, and other measures as related to the house as a system.

**NO PREREQUISITES**

**Price per participant: \$180.00**

**Classroom: 4 hours**

**Lab: 4 hours**



### **OSHA 10 (OSHA10)**

This ten (10) hour course is provided over a two-day period and is intended to provide entry level construction workers and related fields information about their rights, employer responsibilities, and how to file a complaint as well as how to identify, abate, avoid and prevent job related hazards on a construction site. The training covers a variety of construction safety and health hazards which a worker may encounter at a construction site.

**NO PREREQUISITES**

**Classroom: 10 hours**

**Price per participant: \$360.00**

**Lab: 0 hours**

### **OSHA 30 (OSHA30)**

This 30 hour course is delivered over four days and is a comprehensive safety program designed for anyone involved in the construction industry. Specifically devised for safety directors, foremen, and field supervisors; the program provides complete information on OSHA compliance issues. The training provides an orientation to occupational safety and health for workers covered by OSHA 29 CFR 1926.

Construction workers must receive additional training, when required by OSHA standards, on specific hazards of the job. Upon successful completion of the course, participants will receive an OSHA 30-Hour Construction course completion wallet card within 1-2 weeks.

*The 30 Hour Construction Certification course is NOT equivalent to the OSHA 510 or 511 courses and will not meet the course prerequisites to take the OSHA 500 or 501 courses.*

**NO PREREQUISITES**

**Classroom: 30 hours**

**Price per participant: \$720.00**

**Lab: 0 hours**

### **NFPA SPILLAGE TEST (NFPA-S)**

This half-day (4 hour) class covers the National Fire Protection Association standards for overall performance requirements in a natural draft vent system, with a focus on Annex G for spillage testing. The course covers mechanical air systems; building airtightness; and combustion appliances relating to proper air venting techniques. An overview of the National Fuel Gas Code (NFPA 54) is provided, including how to navigate NFPA 54. Additional material relating to health and safety is covered in the course.

**NO PREREQUISITES**

**Classroom: 4 hours**

**Price per participant: \$90.00**

**Lab: 0 hours**





### **NATE CORE**

This one-day class will cover the skills needed to pass the NATE Core exam. These skills are often referred to as “Soft skills” is a general term broadly used to describe a set of skills that may have very little to do with your ability to service HVACR equipment. But these skills—which include things like written and oral communication, mathematics, good judgment, and ethical conduct—are still extremely important to you being able to do your job effectively. How you relate to other people—your employer, your customers, your fellow workers—is a big part of being a successful service technician.

**NO PREREQUISITES**

**Price per participant: \$180.00**

**Classroom: 8 hours**

**Lab: 0 hours**

### **NATE GAS FURNACE**

This one-day class assumes that you already have a basic working knowledge of HVACR systems. Most of today’s residential and light-commercial fossil-fuel heating systems use either gas or oil as the fuel source. Much of the information in this class is relative to both types of systems. There are some differences between gas and oil, of course, and those differences are noted so that the technician that wishes to become NATE-certified can prepare for either the Gas Heating exam or the Oil Heating exam.

**NO PREREQUISITES**

**Price per participant: \$180.00**

**Classroom: 8 hours**

**Lab: 0 hours**

### **NATE HYDRONIC**

This one-day class will cover the components, operations and design of hydronic systems that can be encountered in residential and light-commercial applications. By covering these aspects the technician will become NATE-certified for Hydronics.

**NO PREREQUISITES**

**Price per participant: \$180.00**

**Classroom: 8 hours**

**Lab: 0 hours**



### **EPA LEAD RENOVATION, REPAIR & PAINTING INITIAL (RRP – I)**

This one-day (8 contact hours) training is required for all contractors and workers who are performing renovation and remodeling activities in pre-1978 housing units, including general rehabilitation workers, such as weatherization workers, painters and carpenters. Contractors and workers attending the training will be listed by the US Environmental Protection Agency (EPA) and Ohio Department of Health (ODH) as certified to perform lead-hazard control activities, except abatement, in pre-1978 residential housing and child-occupied facilities. The training is also required for those who cannot provide verification of attending the appropriate lead-safe training previously. The training topics include lead-based paint and lead poisoning history, health effects of lead poisoning, lead-based paint laws and regulations, identifying and controlling lead-based paint, lead-safe renovation and remodeling, resident protection and worksite preparation, working lead safe, cleaning up in a lead-safe manner and lead-safe waste management. Participants completing this training will receive the U.S. EPA Lead RRP Certification and the Lead Essential Maintenance Practice certificate offered by the ODH. *Re-certification is required every five (5) years under EPA rule for RRP.*

**NO PREREQUISITES**

**Classroom: 6 hours**

**Price per participant: \$180.00**

**Lab: 2 hours**



### **EPA LEAD RENOVATION, REPAIR & PAINTING REFRESHER (RRP – R)**

This ½ day (4 contact hours) course is for individuals who have already completed **EPA Renovation, Repair, and Painting – Initial Training**, and are renewing certification. Re-certification is required every five (5) years under EPA rule. Proof of previous RRP certification is required to enroll in this course (must provide documentation or certificate number). This 4-hour course satisfies the requirements of the EPA for contractors that routinely disturb lead-based paint, or work on pre-1978 housing, in the course of their work. *This four hour training is required for those holding a current Ohio Lead Abatement Contractor License.*

**PREREQUISITES: RRP CERTIFICATION**

**Price per participant: \$90.00**

**Classroom: 4 hours**

**Lab: 0 hours**

### **RESIDENTIAL LEAD ABATEMENT CONTRACTOR – INITIAL (RLAC- I)**

This five-day training, designed for residential housing rehabilitation contractors, general contractors, project designers and policy makers, presents the EPA model abatement supervisor curriculum and augments it with a number of additional topics. The focus is on identification of proper work practices and job specifications for a variety of abatement techniques for paint, dust, and soil. The training will also help participants choose the most cost effective abatement methods. The training topics include health effects of lead poisoning, lead background and history, routes of exposure and sources of lead, lead in housing, legal and insurance issues, lead testing and inspection, worker protection, planning for abatement and abatement protection. Training is based on the July 2012 HUD Guidelines, OAC 3701-32 and applicable sections of the RRS. Those successfully completing this training are eligible to sit for the State of Ohio licensure exam. *The refresher training must be completed every two years in order to maintain licensure in the State of Ohio.*

**NO PREREQUISITES**

**Price per participant: \$900.00**

**Classroom: 33 hours**

**Lab: 7 hours**



### **RESIDENTIAL LEAD ABATEMENT CONTRACTOR – REFRESHER (RLAC – R)**

This one-day training is designed for the professional who currently has an Ohio Lead Abatement Contractor License and is seeking to renew licensure. The refresher training must be completed every two years in order to maintain licensure in the State of Ohio. Therefore, it is necessary that individuals enrolling for this class be currently licensed as a Lead Abatement Contractor.

This

provides an update regarding personal protective equipment, safety practices and Ohio's lead abatement laws and regulations. In addition, applicable sections of the 2012 HUD Guidelines, including modifications, will be discussed, as well as record-keeping, liability and insurance concerns, and new approved lead abatement technologies. *Students successfully completing the course will be eligible to apply for re-licensure upon receipt of their training certificate.*

**PREREQUISITES: RLAC**

**Price per participant: \$180.00**

**Classroom: 8 hours**

**Lab: 0 hours**

### **LEAD INSPECTOR INITIAL (LI)**

This three day course, along with a two day Risk Assessor course, will equip housing and building inspectors and risk assessors with the specialized skills necessary to conduct accurate and defensible building/housing inspections for lead-based paint, and familiarize participants with the likely locations of lead hazards, the interpretation of results of paint, dust soil and water testing, and the development of abatement reduction responses.

The training topics include health effects of lead poisoning, concepts of risk assessment versus lead paint inspections, lead background and history, environmental sources of lead, types of risk assessment, treatment of lead problems, prioritizing hazards and selection of testing locations, current regulations and guidelines, assessing paint failure, standards for lead hazards control, intervention, paint, soil and water sampling, occupant issues, sealing work areas, radiation safety, specification writing, and interpreting testing reports.

**NO PREREQUISITES**

**Price per participant: \$540.00**

**Classroom: 21 hours**

**Lab: 3 hours**

### **LEAD RISK ASSESSOR INITIAL (LRA)**

This 2-day (16 hr.) training will equip housing and building inspectors and risk assessors with the specialized skills necessary to conduct accurate and defensible building/housing inspections for lead-based paint, and familiarize participants with the likely locations of lead hazards, the interpretation of results of paint, dust, soil and water testing, and the development of abatement reduction responses. The training topics include health effects of lead poisoning, concepts of risk assessment versus lead paint inspections, lead background and history, environmental sources of lead, types of risk assessment, treating of lead



problems, prioritizing hazards and selection of testing locations, current regulations and guidelines, assessing paint failure, standards for lead hazards control, intervention, paint, soil and water sampling, occupant issues, sealing work areas, radiation safety, specification writing, and interpreting testing reports. *A refresher course is required every 2 years to maintain Lead Inspector/Risk Assessor licensure.*

**PREREQUISITES: LI**

**Classroom: 13.5 hours**

**Price per participant: \$360.00**

**Lab: 2.5 hours**

#### **LEAD RISK ASSESSOR – REFRESHER (LRA – R)**

This one-day training is designed for certified lead risk assessors interested in updating their knowledge and skills and fulfilling Ohio's requirements for continuing certification. The training topics include health effects of lead poisoning, new/updated laws, types of risk assessment and new lead abatement technologies and procedures. *This training is required for licensed lead inspector/risk assessor every 2 years.*

**PREREQUISITES: LI/RA**

**Classroom: 8 hours**

**Price per participant: \$180.00**

**Lab: 0 hours**



AFFILIATE ORGANIZATION

### **OWTC Certified BPI Proctor Status and Professional BPI Certifications**

The Ohio Weatherization Training Center (OWTC) has been a Building Performance Institute (BPI) approved test center since 2000. The OWTC maintains a staff of qualified training professionals and proctors who adhere to rigorous BPI protocol and industry standards to ensure the highest quality of industry training and testing.



### **Quality Control Inspector Prep Course**

The Home Energy Professional (HEP) Quality Control Inspector (QCI) course is a comprehensive, 3-day training designed to prepare students to challenge the Written and Field Exams for the HEP QCI Certification. This Certification is based on the QCI Job Task Analysis, an industry-led collaboration directed by the National Renewable Energy Laboratory (NREL) and the U.S. Department of Energy (DOE), which defines the knowledge, skills and abilities necessary to perform the job of a Quality Control Inspector working in the Weatherization or Home Performance industries.

To achieve the QCI Certification, a student must receive a passing score on both the Written and Field Examinations. Students seeking this Certification must meet additional prerequisites (see below) in order to qualify to challenge the exams and must provide proof of approval from BPI in order to take the exams.

The course will provide participants with classroom/lab training by Certified BPI Professionals. This course is specifically designed to provide individuals with previous experience in the energy efficiency retrofit/home performance industry additional educational and technical training in preparation for the nationally recognized Quality Control Inspector credential offered through the Building Performance Institute (BPI). A combination of classroom, and in-field /lab learning methods is provided. Approximately fifty percent of the course provides hands-on experiential learning.

After successful completion of the QCI Prep Course, the participant will be able to conduct in-process and post-work quality assurance inspections, conduct diagnostic and health and safety tests, assess worker professionalism, verify compliance with a variety of Home Performance and Weatherization program requirements, and evaluate client satisfaction. Participants will receive a QCI Certificate of Completion from the OWTC.

Since this course covers a wealth of material in a limited time, it is strongly recommended that students possess a BPI Building Analyst Professional certification and/or have extensive related industry experience. Students should be competent in basic mathematics, construction terminology, and possess basic computer operation skills prior to attending this training. Students completing the QCI Prep Course will have/learn:



- Interactive hands-on activities in a state-of-the-art Weatherization Training Center containing demonstration equipment, combustion lab, and fully interactive demonstration house
- Site visit to an existing home for inspection and diagnostic testing training
- Blower door & pressure differential diagnostic testing
- Duct pressurization & pressure pan testing
- Ventilation fan flow rate measurement
- Combustion safety testing (spillage, draft, CO, gas leaks)

**PREREQUISITES:**

Since this course covers a wealth of material in a limited time, it is strongly recommended that students possess a BPI Building Analyst Professional certification and/or have extensive related industry experience. Students should be competent in basic mathematics, construction terminology, and possess basic computer operation skills prior to attending this training.

Students seeking the BPI HEP Quality Control Inspector Certification must meet specific work experience prerequisites. A detailed list of prerequisites can be found here: [BPI Prerequisites](#)

Students seeking the BPI HEP Quality Control Inspector Certification must apply directly with BPI and receive approval to challenge the exams. The BPI Approval Letter must be provided to the OWTC prior to challenging any exams. The application and instructions for applying may be found here: [BPI Quality Control Inspector Application](#).

<b>QCI Prep Course:</b>	<b>\$ 595.00</b>
<b>Written Exam:</b>	<b>\$ 250.00</b>
<b>Field Exam:</b>	<b>\$ 700.00 (by appointment)</b>
<b>Classroom: 12 hours</b>	<b>Lab: 12 hours</b>



### **Building Analyst Professional Prep Course**

This three day certification prep course is designed to provide building performance professionals with the skills and knowledge necessary to sit for the BPI Building Analyst certification written exam and field exams. This course will prepare the professional to with the ability to scientifically diagnose and evaluate a residential structure based upon efficiency, health, safety, and durability. Through classroom lecture, hands-on learning with state of the art diagnostic equipment, prop-based experiences, and in-field training, this course provides professionals with the necessary tools for certification and quality service delivery in the home performance sector.

#### **NO PREREQUISITES**

<b>BA Prep Course:</b>	<b>\$ 595.00</b>
<b>Written Exam:</b>	<b>\$ 300.00</b>
<b>Field Exam:</b>	<b>\$ 450.00 (by appointment)</b>
<b>Classroom: 16 hours</b>	<b>Lab: 16 hours</b>

### **Envelope Professional**

This three day course prepares candidates to sit for the Building Performance Institute (BPI) Envelope Professional Certification, which is offered on the afternoon of day three. The course includes fundamentals of building science, home assessment and improvement concepts, as well as the use of diagnostic equipment including blower door, exhaust flow meter, and combustion safety testing equipment. The course prepares the student for both the written and field BPI Envelope Professional exams. To achieve any BPI certification, the student must receive a passing score on both the written and field examination for that specific certification.

This training includes:

- Twenty-four hours of classroom/lab training, culminated by the BPI Envelope Professional written exam
- Interactive, hands-on activities in a state-of-the-art Weatherization Training Center containing operational equipment, combustion lab, and fully interactive demonstration living lab
- Site visit to an existing home, or lab learning house for inspection and diagnostic testing hands-on training
- Blower door and pressure differential testing
- Pressure pan testing
- Ventilation fan flow rate measurement testing
- Combustion safety testing (spillage, draft, CO, gas leaks)

#### **PREREQUISITES:**

As this class covers an extensive amount of material in a limited time, it is highly recommended that the candidate possess the BPI Building Analyst Professional certification and/or have extensive comparable industry experience prior to attending this course. The candidate should be competent in basic mathematics, construction terminology, and possess basic computer operation skills prior to attending this training.





<b>EP Prep Course:</b>	<b>\$595.00</b>
<b>Written exam:</b>	<b>\$300.00</b>
<b>Field exam:</b>	<b>\$450.00 (by appointment)</b>
<b>Classroom: 12 hours</b>	<b>Lab: 12 hours</b>

**Building Analyst/Envelope Professional Combined**

The four day course combines the learning activities from Building Analyst and Envelope Professional prep courses.

**NO PREREQUISITES**

<b>BA/EP Prep Course:</b>	<b>\$720.00</b>
<b>Combined written exam</b>	<b>\$450.00</b>
<b>Combined field exam</b>	<b>\$750.00</b>
<b>Classroom: 20 hours</b>	<b>Lab: 12 hours</b>