



Ohio Weatherization Training Center Course Descriptions

2023

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
U.S. Department of Health
U.S. Department of Housing and Urban Development
U.S. Environmental Protection Agency
North American Technician Excellence
Building Performance Institute

Affiliate Test Center: Building Performance Institute
North American Technician Excellence

CEU Provider: Building Performance Institute
Ohio Construction Industry License Board

Locations: Main Campus Athens, Ohio Central Hub-Newark, Ohio Southwest Hub-Dayton, Ohio

Corporation for Ohio Appalachian Development

1 Pinchot Lane, PO Box 787 Athens, Ohio, 45701 | (740) 594-8499 | coadinc.org



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BASIC WEATHERIZATION TACTICS (BWT)
CONSUMER ENERGY EDUCATION (CEE)
COMBUSTION ANALYSIS FOR CONTRACTORS (COMB)
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BLOWER DOOR USE (BDU)

This one-day class is designed to instruct field personnel in the basic use of our most valuable tool, the Minneapolis Model 3 Blower door. 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

Contact Hours: 8

BASIC WEATHERIZATION TACTICS (BWT)

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

PREREQUISITES: BDU

Contact Hours: 24

CONSUMER ENERGY EDUCATION (CEE)

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. This class is offered online through our OWTC online offerings.

NO PREREQUISITES

Contact Hours: 8 hours

COMBUSTION ANALYSIS FOR CONTRACTORS (COMB)

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.

NO PREREQUISITES

Contact Hours: 8

BASIC MATH (ONLINE)

This online course is designed to acquaint the prospective inspector with the basic math skills required. Participants will review basic math skills to calculate perimeter, area and volume of basic shapes. Students will be required to pass the final math quiz with a grade of 70% or higher to be permitted to take the Introduction to Inspection course.

PREREQUISITES: None

Contact Hours: 2

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INTRODUCTION TO INSPECTION

This one-day course is designed to acquaint the prospective inspector with the basic requirements of the initial inspector. Participants will be introduced to the history of the weatherization program as operated in Ohio. Students will use basic math procedures and calculations necessary to perform an initial inspection and will utilize that knowledge in classroom exercises. Introduction to the Ohio Weatherization Field Guide (OWFG) as well as NFPA codebooks. Students will explore the role of codebooks in the weatherization program.

PREREQUISITES: Basic Math Online

Contact Hours: 8

REQUIRED MATERIALS: OWFG, NFPA 54, 211 & 31

HEATING UNIT INSPECTION (HUI)

This is an intensive five-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 as how to properly size heating unit vent systems.

PREREQUISITES: Intro to Inspection

Classroom: 40 hours

HEATING TECHNICIAN (HTT)

This five-day course is geared toward field personnel who are planning to become furnace technicians. Participants will have classroom guidance explaining how to properly repair and maintain various types of heating units and lab time to practice cleaning and tuning residential gas furnaces. This course will emphasize the importance of mechanical and electrical troubleshooting methods through hands-on practice. The participants will learn in depth heating systems wiring and how to properly read wiring schematics as well as how to use an electrical multi-meter to check heating components.

PREREQUISITES: HUI

Contact Hours: 40

HEATING TECHNICIAN REFRESHER (HTR)

This three-day course is a refresher/recertification for field heating technicians. It focuses primarily on house heating units, domestic hot water tanks and combustion analysis of both. National, state, and local codes are reviewed and discussed. Classroom and lab time are equally weighted to ensure that the participant has exposure to all relevant facets of heating mechanics and theory.

PREREQUISITES: HTT

Refresher every 3 years

Contact Hours: 24

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Heat Pump/Air Conditioning (HP\AC)

This three-day class is geared toward field personnel who are planning to install and work on heat pumps and air conditioners. Participants will have classroom training on the basic operations of heat pumps and air conditioners. The participants will have hands-on training on soldering and other joining techniques for copper piping. Proper evacuation of a refrigeration system as well as recovery of refrigerant will be included in the hands-on training. EPA 608 testing will be available on the fourth day for those participants that would like to attempt certification.

PREREQUISITES: (HTT)

Contact hours: 24

REQUIRED MATERIALS: none

INITIAL INSPECTION (IINS)

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, BWT, HUI

Contact Hours: 32

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.

PREREQUISITES: IINS

Refresher every 3 years

Contact Hours: 16

CREW LEADER OPERATIONS

This one-day course prepares candidates who are intending to sit for the Building Performance Institute (BPI) Crew Leader certification. This course will ensure that quality and supervise the installation and performance of weatherization measures defined in each project’s work scope developed during the auditing/estimating process.

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PREREQUISITES: BWT, CEE, OSHA 10, RRP-I

Contact Hours: 8

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

This two-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.

NO PREREQUISITES

Contact Hours: 16

OSHA 10

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

Contact Hours: 10 hours

ENERGY COORDINATOR

This in-person two-day course is designed for Energy Coordinators (current and future) to learn how to navigate the following areas of interest:

- Usage of the OWTC Database for agency needs
- Familiarize them with OWTC procedures and scheduling
- Using the documents available to the HWAP network through the training center
- Services that are provided by the OWTC
- In-depth look at BPI policies and procedures and how they affect your agency
- Customer Service
- Communicating and Training with your Intake and Field staff

This course will also have 2 Online Forums after the in-class portion of the course. Subjects will include:

- Strategic Planning and Time Management
- Budgeting and reporting
- HWAP policies and procedures/SWS/OCEAN
- Understanding the different types of agencies (staff, contractors, both)
- Goal Setting and Evaluation of work
- Best Practices and lessons learned

PREREQUISITES: Current Energy Coordinator or in-training

Contact hours: 16 in-class and 2 online forums

REQUIRED MATERIALS: none

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Ohio Center for Lead Abatement Courses

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

This one-day 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

Contact Hours: 8

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

Refresher every 5 years

Contact Hours: 4 hours

LEAD ABATEMENT CONTRACTOR – INITIAL (LAC- 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 the 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

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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

Contact Hours: 40

LEAD ABATEMENT CONTRACTOR – REFRESHER (LAC – 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: LAC

Refresher every 2 years

Contact Hours: 8 hours

LEAD ABATEMENT WORKER – INITIAL (LAW-I)

Lead Abatement Worker is a three-day course designed for those individuals who will be performing lead abatement work, but not in a supervisory capacity. The training is based on the 2012 HUD Guidelines for the Evaluation of Lead-based Paint Hazards in Housing and the Ohio Administrative Code O.A.C. 3701-32. Students will be exposed to classroom as well as hands-on training in the following areas: General information and history of lead use, the theory of and use of Personal Protective Equipment, Occupational Safety and Health Administration regulations, set-up procedures for lead abatement work, lead abatement methods, interim control methods, waste handling and disposal, clean-up techniques, and clearance testing. Students successfully completing the course will be eligible to sit for the State of Ohio licensing exam.

NO PREREQUISITES

Contact Hours: 24 hours

LEAD ABATEMENT WORKER – REFRESHER (LAW – R)

This one-day training is designed for the professional who currently has an Ohio Lead Abatement Worker 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 Worker.

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

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well as any updates of rules and regulations regarding Lead abatement. *Students successfully completing the course will be eligible to apply for re-licensure upon receipt of their training certificate.*

PREREQUISITES: LAW

Refresher every 2 years

Contact Hours: 6 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

Contact Hours: 24

LEAD CLEARANCE TECHNICIAN (CT)

This one-day course will prepare you to obtain a license to conduct clearance examinations on non-lead abatement lead projects only.

The training topics include the procedures and duties for performing clearance examinations. The students will learn the testing criteria based on the Ohio Department Health regulations.

PREREQUISITES: RRP

Contact Hours: 7.2

LEAD RISK ASSESSOR INITIAL (LRA)

This two-day 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 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.*

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PREREQUISITES: LI

Contact Hours: 16

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

Refresher every 2 years

Contact Hours: 8



Building Performance Institute Test Center



TEST CENTER

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.

Energy Auditor Prep Course

The Home Energy Professional (HEP) Energy Auditor (EA) course is a comprehensive, 3-day training designed to prepare students to challenge the Written and Field Exams for the EA 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 EA 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 Energy Auditor credential offered through the Building Performance Institute (BPI). A combination of classroom, and in-field /lab learning methods is provided.

After successful completion of the EA 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 an EA 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:

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- 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:

EA Approval Letter to set for the Written and field exam