

Related Technical Instruction (RTI) Outline for the Weatherization Laborer Apprenticeship Program

Sponsor Name	
RTI Provider Name	Everblue
RTI Provider Address	8720 Camberly Road, Huntersville, NC 28078
RTI Contact Name	Lesley Baulding
RTI Contact Phone	(800) 460-2575
RTI Contact Email	training@support.goeverblue.com
Total Hours of Instruction	164

Course	BPI Building Science Principles	Hours	16
• Th	e "house-as-a-system" approach to home performance		

- . Han to identify a stantial building a sufamora and black in a la
- How to identify potential building performance problems in a home
- How to improve the safety, comfort, and health of building occupants
- Why you should focus on energy efficiency before solar
- How to educate clients about potential building performance problems

Course BPI Building Analyst Technician Hours 40

- Principles of Energy
- · Basics of Heat, Moisture & Airflow
- Building Structural Elements
- Types of Insulation
- Building Mechanical Elements
- Blower Door & Pressure Diagnostics
- Combustion Safety
- Common Problems & Solutions
- The Energy Audit Process
- Health & Safety

Course	BPI Building Analyst Professional	Hours	10
PriBuAnEnWoCoTh	Instruction Math Inciples of Heat, Moisture & Airflow Ilding Structural Elements Inalysis of Data Collection Inciples of Heat, Moisture & Airflow Inciples of		
Course	BPI Infiltration & Duct Leakage	Hours	10
• Blo • Tig • Du	flow ower Door & Pressure Diagnostics ghtness Verification act Testing act Tightness Verification		
Course	HEP Energy Auditor	Hours	48
HcEnHcCoEd	ofessional energy audit conduct ow to collect information about a building for an energy audit ergy audit process ow to evaluate the collected energy audit data impliance with the program or project requirements ucate homeowner on energy usage, mold, lead, and ventilation dress homeowner's concerns and use of the home		
Course	HEP Quality Control Inspector	Hours	15
PoPoWoCo	process quality assurance inspections st-work visual and sensory inspections st-work diagnostic inspections for health and safety orker professionalism assessments impliance with program or project requirements aluating customer satisfaction		
Course	Weatherization Installer Badges	Hours	25

- Work Lead-Safe
- Air Seal Attic Floor
- Seal & Dam High-Temp Heat Sources in Attic
- Prep Attic Floor for Insulation
- Treat Attic Hatch
- Insulate Attic Floor & Pass Inspection the 1st Time
- Insulate Ceiling of a Manufactured Home
- Seal and Insulate Knee Walls
- Install Dense-Pack Sidewall Insulation
- Insulate Mobile Home Walls
- Install Weatherstripping & Sweep Set on Exterior Door
- Air Seal & Insulate Walls of a Conditioned Subspace
- Air Seal Floor Above an Unconditioned Subspace
- Insulate the Floor Above an Unconditioned Subspace
- Insulate the Belly of the Manufactured Home
- Install or Repair Vapor Retarder in a Subspace
- Vent Clothes Dyer to the Exterior
- Install Ducting for a Bath or Kitchen Range Fan
- Air Seal Ducted Distribution System
- Insulate Ducted Distribution System
- Install Window or Exterior Door
- Repair/Replace Cracked or Broken Glass
- Insulate a Water Heater Tank & the First 6 Feet of Pipes
- Install Low-Flow Faucet Aerators or Showerhead
- Install Exterior Roof Penetration



Work Process Schedule

Home Performance Laborer (Resider	ntial)	
Job Description: Perform a variety of activities to we fficient. Duties include repairing windows, insulatin air-conditioning (HVAC) work. May perform energy a measures.	g ducts, and performing hea	ating, ventilating, and
RAPIDS Code: 2004HY	O*NET Code: 47-4099.03	}
Estimated Program Length: 1 Year		
Apprenticeship Type: □ Competency-Based	☐ Time-Based	⊠ Hybrid
Suggested On-the-Job Learning Outli	ne	
Test products for functionality or quality.		Approximate Hours
A. Test combustible appliances, such as gas a	ppliances.	-
Total Hours		-
Inspect equipment to ensure proper functioning.		Approximate Hours
A. Determine amount of air leakage in building machine.	s, using a blower door	
Total Hours		-
Test characteristics of materials or structures.		Approximate Hours
A. Determine amount of air leakage in building machine.	s, using a blower door	
Total Hours		-

Apply material to fill gaps in surfaces.	Approximate Hours		e Hours
A. Install and seal air ducts, combustion air openings, or ventilation openings to improve heating and cooling efficiency.		1	
B. Prepare and apply weather-stripping, glazing, caulking, or door sweeps to reduce energy losses.		_	
C. Apply spackling, compounding, or other materials to repair holes in walls.		-	
Total Hours		•	

Inspect industrial or commercial equipment to ensure proper operation.	Approximate Hours	
A. Test and diagnose air flow systems, using furnace efficiency analysis equipment.	-	
Total Hours	-	

Install green structural components, equipment or systems.	Approximate Hours		
A. Install and seal air ducts, combustion air openings, or ventilation openings to improve heating and cooling efficiency.		_	
Total Hours		-	

Inspect work sites to determine condition or necessary repairs.	Approxim	nate	e Hours
A. Inspect buildings to identify required weatherization measures, including repair work, modification, or replacement.		_	
Total Hours			

Communicate with clients about products, procedures, and policies.	Approximate Hours		Hours
A. Recommend weatherization techniques to clients in accordance with needs and applicable energy regulations, codes, policies, or statutes.		1	
B. Contact residents or building owners to schedule appointments.		-	
C. Explain recommendations, policies, procedures, requirements, or other related information to residents or building owners.		-	
D. Explain energy conservation measures, such as the use of low flow showerheads and energy-efficient lighting.		-	
Total Hours		-	

Install insulation in equipment or structures.	Approximate Hours	
A. Apply insulation materials, such as loose, blanket, board, and foam insulation to attics, crawl spaces, basements, or walls.		
B. Wrap air ducts and water lines with insulating materials, such as duct wrap and pipe insulation.		
C. Prepare and apply weather-stripping, glazing, caulking, or door sweeps to reduce energy losses.		-
D. Wrap water heaters with water heater blankets.		
Total Hours		-

Install building fixtures.	Approximate Hours	
A. Make minor repairs using basic hand or power tools and materials, such as glass, lumber, and drywall.		-
Total Hours		-

Estimate construction project costs.	Approximate Hours	
A. Prepare cost estimates or specifications for rehabilitation or weatherization services.		-
Total Hours		-

Clean equipment or facilities.	Approxim	nate	Hours
A. Clean and maintain tools and equipment.			
Total Hours		-	
Maintain construction tools or equipment.	Approxim	nate	Hours
A. Clean and maintain tools and equipment.			
Total Hours		-	
Record operational or environmental data.	Approxim	nate	Hours
A. Maintain activity logs, financial transaction logs, or other records of weatherization work performed.		-	
Total Hours		-	
Prepare operational reports.	Approxim	nate	e Hours
A. Prepare or assist in the preparation of bids, contracts, or written reports related to weatherization work.			
Total Hours		-	
Inspect completed work to ensure proper installation.	Approxim	nate	e Hours
A. Install storm windows or storm doors and verify proper fit.		-	
Total Hours		-	
Install doors or windows.	Approxim	nate	Hours
A. Install storm windows or storm doors and verify proper fit.			
Total Hours		-	
Total OJL I	Hours:		-

Suggested Related Instruction Outline

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Email: training@support.goeverblue.com	Phone Number: (800) 460-2575			
Suggested Related Instruction Hours: 164				

Course Number	Course Title	Contact Hours
	BPI Building Science Principles	16
	BPI Building Analyst Technician	40
	BPI Building Analyst Professional	10
	BPI Infiltration & Duct Leakage	10
	HEP Energy Auditor	48
	HEP Quality Control Inspector	15
	Weatherization Installer Badges	25
Total		164