

**Industry Partnership Training Plan**

**Partnership: Smart Energy Initiative of Southeastern PA**

**Fiscal Agent: Chester County Workforce Development Board**

Training Name	SOC Codes	SOC Titles	Specific Expected Outcomes (number and name of specific certs./creds.)
<b>ELECTRIC VEHICLES COURSE (USA)</b>			Certifications for 80 % of trainees. No wage impact as this is a new topic in the market.
	17-2051	Engineers	
	51-1011	Managers	
	17-3023	Technicians	
<b>Building Performance Institute (BPI) Certified Building Analyst</b>			Certifications for 100% of trainees Wage gain and/or promotion for 90% of trainees. Wage gain will exceed grant award. 95% report training increased trainee technical skill sets and productivity; increased employer profitability.
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>Building Performance Institute (BPI) Certified Envelope Professional</b>			Certifications for 100% of trainees Wage gain and/or promotion for 90% of trainees. Wage gain will exceed grant award. 95% report training increased trainee technical skill sets and productivity; increased employer profitability.
	47-2031	Carpenters	
	17-2071	Electrical Engineers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>Building Performance Institute (BPI) Healthy Home Evaluator (HHE) Certification</b>	47-2031	Carpenters	<p>Certifications for 100% of trainees  Wage gain and/or promotion for 90% of trainees.  Wage gain will exceed grant award.  95% report training increased trainee technical skill sets and productivity; increased employer profitability.</p>
	17-2071	Electrical Engineers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	
<b>BPI Infiltration and Duct Leakage (IDL) Certification</b>	47-2031	Carpenters	<p>Certifications for 100% of trainees  Wage gain and/or promotion for 90% of trainees.  Wage gain will exceed grant award.  95% report training increased trainee technical skill sets and productivity; increased employer profitability.</p>
	47-2111	Electricians	
	49-9021	Heating, A/C &	
	17-3026	Industrial Engineering	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>BPI Multifamily Certification</b>	47-2031	Carpenters	Certifications for 100% of trainees Wage gain and/or promotion for 90% of trainees. Wage gain will exceed grant award. 95% report training increased trainee technical skill sets and productivity; increased employer profitability.
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>Energy Modeling for LEED Projects</b>			<p>Certifications for 100% of trainees  Wage gain and/or promotion for 90% of trainees.  Wage gain will exceed grant award.  95% report training increased trainee technical skill sets and productivity; increased employer profitability.</p>
	17-2051	Civil Engineers	
	17-2071	Electrical Engineers	
	49-9051	Electrical Power-Line Installers & Repairers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	17-2112	Industrial Engineers	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
51-1011	Supervisors - Production & Operating Workers		

<b>HVAC Design</b>			Certifications for 100% of trainees Wage gain and/or promotion for 90% of trainees. Wage gain will exceed grant award. 95% report training increased trainee technical skill sets and productivity; increased employer profitability.
	17-2051	Civil Engineers	
	17-2071	Electrical Engineers	
	49-9051	Electrical Power-Line Installers & Repairers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	17-2112	Industrial Engineers	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>Association of Energy Engineers Certified Energy Manager (CEM)</b>			Certifications for 100% of trainees Wage gain and/or promotion for 90% of trainees. Wage gain will exceed grant award. 95% report training increased trainee technical skill sets and productivity; increased employer profitability.
	17-2051	Civil Engineers	
	17-2071	Electrical Engineers	
	49-9051	Electrical Power-Line Installers & Repairers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	17-2112	Industrial Engineers	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>Certified Building Commissioning Professional (CBCP)</b>			Certifications for 100% of trainees Wage gain and/or promotion for 90% of trainees. Wage gain will exceed grant award. 95% report training increased trainee technical skill sets and productivity; increased employer profitability.
	17-2051	Civil Engineers	
	17-2071	Electrical Engineers	
	49-9051	Electrical Power-Line Installers & Repairers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	17-2112	Industrial Engineers	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	



<b>Certified Lighting Efficiency Professional (CLEP)</b>			<p>Certifications for 100% of trainees  Wage gain and/or promotion for 90% of trainees.  Wage gain will exceed grant award.  95% report training increased trainee technical skill sets and productivity; increased employer profitability.</p>
	17-2051	Civil Engineers	
	17-2071	Electrical Engineers	
	49-9051	Electrical Power-Line Installers & Repairers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	17-2112	Industrial Engineers	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>Certified Measurement &amp; Verification Professional (CMVP)</b>			<p>Certifications for 100% of trainees  Wage gain and/or promotion for 90% of trainees.  Wage gain will exceed grant award.  95% report training increased trainee technical skill sets and productivity; increased employer profitability.</p>
	17-2051	Civil Engineers	
	17-2071	Electrical Engineers	
	49-9051	Electrical Power-Line Installers & Repairers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	17-2112	Industrial Engineers	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
51-1011	Supervisors - Production & Operating Workers		
<b>Passive House Institute of US (PHIUS) Certified Consultant; Verifier Certification; Verifier</b>			<p>Certifications for trainees of all courses except for "Verifier"  Wage gain and/or promotion for 90% of trainees.  Wage gain will exceed grant award.  95% report training increased trainee technical skill sets and productivity; increased employer profitability.</p>
	47-2031	Carpenters	
	17-2051	Civil Engineers	
	17-2071	Electrical Engineers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>LEED Accredited Professional and Operations Management</b>			Certifications for 100% of trainees Wage gain and/or promotion for 90% of trainees. Wage gain will exceed grant award. 95% report training increased trainee technical skill sets and productivity; increased employer profitability.
	47-2031	Carpenters	
	17-2051	Civil Engineers	
	17-2071	Electrical Engineers	
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	17-2112	Industrial Engineers	
	17-2141	Mechanical Engineers	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
	51-1011	Supervisors - Production & Operating Workers	

<b>WaterFurnace International Geothermal Residential Forced Air Equipment Training and other geothermal trainings</b>			Wage gain and/or promotion for 90% of trainees. Wage gain will exceed grant award. 95% report training increased trainee technical skill sets and productivity; increased employer profitability.
	47-2111	Electricians	
	49-9021	Heating, A/C & Refrigeration Mechanics & Installers	
	17-3026	Industrial Engineering Technicians	
	49-9071	Maintenance & Repair Workers, General	
	17-2141	Mechanical Engineers	
	47-2152	Plumbers, Pipefitters & Steamfitters	
	47-1011	Supervisors - Construction Trades & Extraction Workers	
	49-1011	Supervisors - Mechanics, Installers & Repairers	
51-1011	Supervisors - Production & Operating Workers		

<p align="center"><b>HYDROGEN ENERGY EXPERT CERTIFICATE - new technology</b></p>			<p align="center">50 % will earn a certification as this is a new technology. Environmentally Sustainable Hydrogen Hydrogen as Part of a Climate Neutral Strategy. Hydrogen Production and Conversion Fuel Cells Hydrogen for Mobility Applications &amp; Vehicles Hydrogen Technologies</p>
	Too New		
<p align="center"><b>Basic Electricity for System Operators</b></p>	<p align="center">47-2111 40-9071</p>	<p align="center">electricians maintenance &amp; repair workers general</p>	<p>This training program is intended for operators who do not have a background in electrical maintenance but who are familiar with working around typical electrical items found in an industrial environment. Operators of facilities are expected to troubleshoot and repair problems. Occasionally, these problems are electrical in nature and cannot be diagnosed properly by an untrained operator. Personal and Public safety could be compromised when individuals without electrical training attempt to repair electrical equipment. This course covers basic electrical theory and highlights safety as a prime consideration. After the course, the student will be able to: Explain basic electrical theory, Explain the hazards associated with electricity, explain the use and selection of Electrical Protection Devices, Explain the use and selection of Lockout/Tagout devices</p>
<p align="center"><b>LEED Green Associate</b></p>	<p align="center">49-9071</p>	<p align="center">Maintenance &amp; Repair Workers, General</p>	<p>Upon completion, student will have the ability highlight their understanding of green building design, construction, and operations by earning the LEED Green Associate professional credential. The course will introduce the structure and scope of the LEED Rating System, including the 100+ green practices that make our buildings more energy-efficient, safe, healthy, and more durable. Also shared tips for how the student can be successful if they want to pursue taking the LEED Green Associate exam (sold separately).</p>