**Boilermaker**

*Skills*

Boilermakers erect and maintain various types of pressure vessels for institutional and industrial use. Skills include welding, burning, heavy and high rigging, and layout work.

*Green Work*

**Hydropower** - Hydroelectric facilities generate electricity through water and create little air pollution

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings

**Bricklayer**

*Skills*

Bricklayers use brick, concrete, and other masonry materials to construct walls, fireplaces, chimneys and other structural elements.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings

**Carpenter: Construction, Floorlayers, Interior Systems, Millwright**

*Skills*

Construction carpenters lay out, construct, repair, remodel, renovate or dismantle permanent or temporary structures. Floorlayers cut, fit and install hardwood flooring and other types of underlayment. Millwrights study and interpret blueprints; install generators, conveyors, escalators and electric turbines; install and maintain machinery used in manufacturing; and do precision work in nuclear power plants.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings

**Wind Power** - Energy derived from wind is commonly used for a variety of purposes such as generating electricity, charging batteries, pumping water, or grinding grain

**Solar Power** - create and install solar panels
Cement Mason and Plasterer

Skills
Cement masons finish the exposed concrete surfaces on many types of construction projects at commercial and industrial, or residential sites. Plasterers apply coats of plaster, cement, and stucco to interior and exterior walls, ceilings and partitions.

Green Work
Building Retrofitting - reduction in energy consumption by existing commercial and residential buildings

Construction Craft Laborer

Skills
Construction craft laborers perform a wide range of non-special trade construction work in all areas of construction, including weatherization. Skills include digging, loading, unloading, lifting, carrying, lugging, tending, stockpiling, sweeping and cleaning.

Green Work
Building Retrofitting - reduction in energy consumption by existing commercial and residential buildings

Construction and Residential Electricians

Skills
Electricians assemble, install, and wire electrical systems that operate heating, lighting, power, air conditioning, and refrigeration components; electrical machinery; electronic equipment and controls; and signal and communication systems.

Green Work
Building Retrofitting - reduction in energy consumption by existing commercial and residential buildings
Mass Transit - increasing efficiency and/or reducing the environmental impact of various modes of transportation
Wind Power - Energy derived from wind is commonly used for a variety of purposes such as generating electricity, charging batteries, pumping water, or grinding grain
Agriculture - use of natural pesticides, efficient land management or farming, and aquaculture
Solar Power - create solar panels
Environmental Systems Technician / HVAC Installation Technician

*Skills*

Environmental Systems Technicians (EST) and HVAC Installation Technicians install, service, and repair heating and air conditioning systems in residences and commercial and industrial establishments.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings

**Glazier**

*Skills*

Glaziers select, cut, install, replace and remove all types of glass in residential and commercial projects.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings

**Heat and Frost Insulator**

*Skills*

Heat and Frost Insulators install and maintain insulation systems for the conservation of energy and the control of the environment in buildings requiring temperature control, heat transfer, sound barriers, fire protection, fire stopping, and asbestos abatement.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings

**Ironworker**

*Skills*

Ironworkers erect structural steel, place reinforcing bars in concrete construction, move machinery, rig and erect equipment, install fabricated building components, and fabricate welding.

*Green Work*
Wind Power - Energy derived from wind is commonly used for a variety of purposes such as generating electricity, charging batteries, pumping water, or grinding grain

Solar Power - solar panel manufacturing

Mechanical Equipment Service

Skills

Mechanical equipment servicers install, service, and repair industrial and commercial refrigeration and air conditioning equipment, and connect motors, compressors, temperature controls, humidity controls, and circulation-venting fans to control panels.

Green Work

Building Retrofitting - reduction in energy consumption by existing commercial and residential buildings

Geothermal Energy - obtained from the heat of the Earth tapped at various depths, use of steam turbines

Operating Engineer / Heavy Equipment Operator

Skills

Operating Engineers work on heavy equipment at commercial and residential construction projects; at plants that produce rock, sand and gravel; or at the clean-up of hazardous waste sites.

Green Work

Building Retrofitting - reduction in energy consumption by existing commercial and residential buildings

Painter and Decorator

Skills

Painters apply paint, stain, varnish and other finishes to buildings and other structures.

Green Work

Insulating house paint - reduce energy consumption
**Plumber**

*Skills*

Plumbers design, install, repair and maintain piping systems in residential, commercial, and industrial buildings and at utility sites.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings; decrease use of water

**Reinforced Concrete Worker**

*Skills*

Reinforced Concrete Workers position and secure steel bars or mesh in concrete forms in order to reinforce concrete in commercial, industrial, and residential structures.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings; decrease use of water

**Roofer and Waterproofer**

*Skills*

Roofing and Waterproofing involves installing water-tight roof systems on new or existing roofs. Green roofs require installation of intensive (flowers, shrubs) or extensive (grasses) water-tight roof system before the landscaping is added on top.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings; decrease use of water
**Sheet Metal Worker**

*Skills*

Roofing and Waterproofing involves installing water-tight roof systems on new or existing roofs. Green roofs require installation of intensive (flowers, shrubs) or extensive (grasses) water-tight roof system before the landscaping is added on top.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings; decrease use of water

**Solar Power** - create solar panels

**Sprinkler Fitter**

*Skills*

Sprinkler Fitters install automatic fire sprinkler systems in new and existing buildings in (primarily) commercial construction. Skills include lay out, assembly, installation, and maintenance of pipe systems, pipe supports, and related equipment.

*Green Work*

**Building Retrofitting** - reduction in energy consumption by existing commercial and residential buildings; decrease use of water

**Steamfitter: Construction, Refrigeration / Service**

*Skills*

Steamfitters lay out, assemble, fabricate, install, troubleshoot, maintain and repair piping systems used in energy production, heating, cooling, food processing, refrigeration and air conditioning, and manufacturing.

*Green Work*

**Hydropower** - Hydroelectric facilities generate electricity through water and create little air pollution
Telecommunications Technician

Skills

Telecommunications technicians install cable networks designed for the transmission of video, voice and data or other forms of signaling.

Green Work

Mass Transit - increasing efficiency and/or reducing the environmental impact of various modes of transportation

Terrazzo Worker

Skills

Terrazzo workers complete the full installation process of terrazzo, from laying the first base of mortar, to mixing the terrazzo, to smoothing and polishing the final product.

Green Work

Durability - durability of tile substantially reduces resource extraction, manufacturing, transportation, installation, demolition and disposal energy requirements

Recycled content - tiles made from natural and plentiful raw materials

Tile Setter

Skills

Tile setters plan, prepare materials, and install tiles in commercial and residential buildings.

Green Work

Durability - durability of tile substantially reduces resource extraction, manufacturing, transportation, installation, demolition and disposal energy requirements

Recycled content - tiles made from natural and plentiful raw materials

Energy consumption - Tiles are excellent thermal conductors