

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

Rofer 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