

# Work-Related Task Lists by Construction Occupation

The following lists provide summaries of work-related tasks by major construction occupation.

Information is based on the Occupational Information Network (O\*NET) and a list of construction occupations identified by ApprenticeshipUSA. The lists were reviewed and edited with support from industry representatives, with some of the occupations being removed or consolidated for our purposes. Details are noted beneath each individual task list along with links to the relevant O\*NET descriptions.

These lists were developed to be used by construction workers and others in the industry in a variety of ways. For example, construction workers can print the appropriate task list for their occupation and take it to their doctors to help their providers understand what is involved in their job and what care, workplace accommodations, or other considerations their physicians may recommend. These lists can also be used by employers to inform pre-job planning and by safety and health researchers to improve study design.

These overviews do not encompass every construction occupation and possible task associated with each job. Users are encouraged to utilize the blank spaces on each occupation page to add any additional relevant tasks as needed.

Identify the occupation and task list that best matches your needs below.

## Table of Contents

- Boilermakers ..... 3
- Brickmasons, Blockmasons, and Stonemasons ..... 4
- Carpenters..... 7
- Cellular Tower Installers/Repairers ..... 9
- Cement Masons ..... 11
- Construction Laborers..... 13
- Construction Managers..... 15
- Drywall Finishers ..... 17
- Electricians ..... 18
- Elevator Constructors..... 20
- Explosives Workers and Blasters ..... 21
- Fence Erectors..... 23
- Floor Coverers ..... 24
- Glaziers..... 26
- Heating, Air Conditioning, and Refrigeration Mechanics and Installers ..... 28
- Insulators..... 30

## Work-Related Task Lists by Construction Occupation

Iron Workers.....	31
Manufactured Building and Mobile Home Installers.....	33
Millwrights .....	34
Operating Engineers and Other Construction Equipment Operators .....	36
Painters, Paperhangers, and Tapers .....	40
Pile Driver Operators.....	42
Pipelayers .....	43
Plasterers.....	44
Plumbers, Pipefitters, and Steamfitters .....	45
Riggers.....	47
Roofers .....	48
Sheet Metal Workers.....	49
Solar Thermal Installers and Technicians .....	50
Telecommunications .....	51
Welders, Cutters, Solderers, and Brazers .....	53

©2023, CPWR-The Center for Construction Research and Training. All rights reserved. CPWR is the research and training arm of NABTU. Production of this document was supported by cooperative agreement OH 009762 from the National Institute for Occupational Safety and Health (NIOSH). The contents are solely the responsibility of the authors and do not necessarily represent the official views of NIOSH.

## Boilermakers

- Assemble products or production equipment
- Clean equipment or facilities
- Fabricate parts or components
- Inspect industrial or commercial equipment to ensure proper operation
- Install gauges or controls
- Install masonry materials
- Install metal structural components
- Maintain mechanical equipment
- Mark reference points on construction materials
- Measure materials or objects for installation or assembly
- Operate cranes, hoists, or other moving or lifting equipment
- Position structural components
- Review blueprints or specifications to determine work requirements
- Signal equipment operators to indicate proper equipment positioning
- Weld metal components
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Boilermakers, 47-2011.00](#)

[Return to the Table of Contents](#)

## Brickmasons, Blockmasons, and Stonemasons

- Adjust the tension of nuts or bolts
- Align masonry materials
- Apply adhesives to construction materials
- Apply decorative masonry finishes
- Apply material to fill gaps in surfaces
- Apply mortar
- Apply sealants or other protective coatings
- Assemble mechanical components or machine parts
- Bolt objects into place
- Break up rock, asphalt, or concrete
- Build construction forms or molds
- Clean equipment or facilities
- Clean equipment, parts, or tools to repair or maintain them in good working order
- Clean surfaces in preparation for work activities
- Clean work sites
- Climb equipment or structures to access work areas
- Communicate with clients about products, procedures, and policies
- Cut carpet, vinyl or other flexible materials
- Cut materials according to specifications or needs
- Cut metal components for installation
- Cut tile, stone, or other masonry materials
- Determine construction project layouts
- Dig holes or trenches

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Dismantle equipment or temporary structures
- Drill holes in construction materials
- Drill holes in parts, equipment, or materials
- Estimate construction project costs
- Estimate construction project labor requirements
- Estimate materials requirements for projects
- Fabricate parts or components
- Finish concrete surfaces
- Inspect work sites to determine condition or necessary repairs
- Install building fixtures
- Install hardware or other interior fixtures
- Install masonry materials
- Install roofing materials
- Load materials into construction equipment
- Mark reference points on construction materials
- Measure distances or dimensions
- Measure materials or objects for installation or assembly
- Measure work site dimensions
- Mix substances or compounds needed for work activities
- Move construction or extraction materials to locations where they are needed
- Move large objects using heavy equipment
- Operate cranes, hoists, or other moving or lifting equipment
- Order construction or extraction materials or equipment
- Place materials into molds
- Plan layout of construction, installation, or repairs

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Plan production or operational procedures or sequences
- Position construction forms or molds
- Position structural components
- Pour materials into or on designated areas
- Prepare compounds or solutions to be used for repairs
- Prepare surfaces for finishing
- Remove excess materials from finished construction projects
- Remove worn, damaged or outdated materials from work areas
- Repair structural components
- Repair worn, damaged, or defective mechanical parts
- Review blueprints or specifications to determine work requirements
- Seal gaps or cracks to prevent leakage or moisture intrusion
- Select construction materials
- Signal equipment operators to indicate proper equipment positioning
- Smooth surfaces of objects or equipment
- Smooth surfaces with abrasive materials or tools
- Spread concrete or other aggregate mixtures
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Brickmasons and Blockmasons, 47-2021.00](#); [Stonemasons, 47-2022.00](#); [Terrazzo Workers and Finishers, 47-2053.00](#); [Tile and Stone Setters, 47-2044.00](#); [Refractory Materials Repairers, Except Brickmasons, 49-9045.00](#)

[Return to the Table of Contents](#)

### Carpenters

- Apply decorative or textured finishes or coverings
- Apply material to fill gaps in surfaces
- Assemble products or production equipment
- Assemble temporary equipment or structures
- Build construction forms or molds
- Clean work sites
- Coordinate construction project activities
- Cut wood components for installation
- Dig holes or trenches
- Direct construction or extraction personnel
- Drill holes in construction materials
- Estimate construction project costs
- Inspect work sites to determine condition or necessary repairs
- Install building fixtures
- Install carpet or flooring
- Install doors or windows
- Install safety or support equipment
- Install trim or paneling
- Install wooden structural components
- Mark reference points on construction materials
- Measure materials or objects for installation or assembly
- Mix substances or compounds needed for work activities
- Order construction or extraction materials or equipment

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Position construction forms or molds
- Position safety or support equipment
- Prepare hazardous waste for processing or disposal
- Prepare operational reports
- Record operational or environmental data
- Remove worn, damaged or outdated materials from work areas
- Review blueprints or specifications to determine work requirements
- Select construction materials
- Verify alignment of structures or equipment
- Weld metal components
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Carpenters, 47-2031.00](#)

[Return to the Table of Contents](#)



## Cellular Tower Installers/Repairers

- Adjust equipment to ensure optimal performance
- Adjust the tension of nuts or bolts
- Assemble electrical components, subsystems, or systems
- Bolt objects into place
- Calibrate equipment to specifications
- Climb equipment or structures to access work areas
- Connect electrical components or equipment
- Control power supply connections
- Document operational activities
- Gather information about work conditions or locations
- Inspect completed work to ensure proper functioning
- Inspect safety equipment to ensure proper functioning
- Inspect telecommunications equipment to identify problems
- Install audio or communications equipment
- Install electrical components, equipment, or systems
- Interpret blueprints, specifications, or diagrams to inform installation, development or operation activities
- Lay cables to connect equipment
- Maintain work equipment or machinery
- Move large objects using heavy equipment
- Operate cranes, hoists, or other moving or lifting equipment
- Position equipment using hand tools, power tools, or heavy equipment
- Read work orders or descriptions of problems to determine repairs or modifications needed

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Record images needed to address work issues
- Repair electrical circuits or wiring
- Repair electrical components
- Repair electronic equipment
- Replace worn, damaged, or defective mechanical parts
- Solder parts or connections between parts
- Test communications equipment to ensure proper functioning
- Test electrical circuits or components for proper functioning
- Test electrical equipment or systems to ensure proper function
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Radio, Cellular, and Tower Equipment Installers and Repairers, 49-2021.00](#)

[Return to the Table of Contents](#)

## Cement Masons

- Apply decorative masonry finishes
- Apply material to fill gaps in surfaces
- Apply sealants or other protective coatings
- Break up rock, asphalt, or concrete
- Build construction forms or molds
- Clean surfaces in preparation for work activities
- Compact materials to create level bases
- Cut metal components for installation
- Direct construction or extraction personnel
- Drill holes in construction materials
- Fabricate parts or components
- Finish concrete surfaces
- Inspect completed work to ensure proper installation
- Install building fixtures
- Install masonry materials
- Install metal structural components
- Install roofing materials
- Mix substances or compounds needed for work activities
- Monitor construction operations
- Position construction forms or molds
- Position structural components
- Pour materials into or on designated areas
- Prepare surfaces for finishing

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Signal equipment operators to indicate proper equipment positioning
- Smooth surfaces with abrasive materials or tools
- Spread concrete or other aggregate mixtures
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Cement Masons and Concrete Finishers, 47-2051.00](#)

[Return to the Table of Contents](#)

## Construction Laborers

- Apply paint to surfaces
- Apply sealants or other protective coatings
- Assemble temporary equipment or structures
- Assist skilled construction or extraction personnel
- Break up rock, asphalt, or concrete
- Clean equipment or facilities
- Clean surfaces in preparation for work activities
- Clean work sites
- Compact materials to create level bases
- Dig holes or trenches
- Direct vehicle traffic
- Dismantle equipment or temporary structures
- Finish concrete surfaces
- Install green structural components, equipment or systems
- Install insulation in equipment or structures
- Install masonry materials
- Install plumbing or piping
- Load or unload materials used in construction or extraction
- Maintain construction tools or equipment
- Mark reference points on construction materials
- Measure work site dimensions
- Mix substances or compounds needed for work activities
- Move construction or extraction materials to locations where they are needed

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Operate heavy-duty construction or installation equipment
- Operate pumps or compressors
- Position construction forms or molds
- Position structural components
- Pour materials into or on designated areas
- Prepare hazardous waste for processing or disposal
- Protect structures or surfaces near work areas to avoid damage
- Remove worn, damaged or outdated materials from work areas
- Review blueprints or specifications to determine work requirements
- Signal equipment operators to indicate proper equipment positioning
- Smooth surfaces with abrasive materials or tools
- Spread concrete or other aggregate mixtures
- Test air quality at work sites
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Construction Laborers, 47-2061.00](#)

[Return to the Table of Contents](#)

## Construction Managers

- Analyze data to determine project feasibility
- Analyze forecasting data to improve business decisions
- Communicate organizational information to customers or other stakeholders
- Communicate organizational policies and procedures
- Determine operational compliance with regulations or standards
- Develop environmental remediation or protection plans
- Develop operating strategies, plans, or procedures
- Develop procedures to evaluate organizational activities
- Develop sustainable organizational policies or practices
- Direct facility maintenance or repair activities
- Estimate green project costs
- Estimate labor requirements
- Evaluate green operations or programs for compliance with standards or regulations
- Implement organizational process or policy changes
- Investigate industrial or transportation accidents
- Manage construction activities
- Model operational processes
- Negotiate project specifications
- Prepare financial documents, reports, or budgets
- Prepare forms or applications
- Prepare operational budgets for green energy or other green operations
- Purchase materials, equipment, or other resources
- Recruit personnel

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Review blueprints or other instructions to determine operational methods or sequences
- Supervise employees
- Train employees on environmental awareness, conservation, or safety topics
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Construction Managers, 11-9021.00](#)

[Return to the Table of Contents](#)



## Drywall Finishers

- Apply material to fill gaps in surfaces
- Apply mortar
- Clean surfaces in preparation for work activities
- Coordinate construction project activities
- Cut metal components for installation
- Cut openings in existing structures
- Cut tile, stone, or other masonry materials
- Cut wood components for installation
- Install building fixtures
- Install insulation in equipment or structures
- Install masonry materials
- Install metal structural components
- Install trim or paneling
- Install wooden structural components
- Mark reference points on construction materials
- Measure materials or objects for installation or assembly
- Operate cranes, hoists, or other moving or lifting equipment
- Remove worn, damaged or outdated materials from work areas
- Review blueprints or specifications to determine work requirements
- Trim excess material from installations
- Verify alignment of structures or equipment
- \_\_\_\_\_

Relevant O\* NET Entries: [Drywall and Ceiling Tile Installers, 47-2081.00](#)

[Return to the Table of Contents](#)

## Electricians

- Align equipment or machinery
- Assemble electrical components, subsystems, or systems
- Assemble mechanical components or machine parts
- Assist skilled construction or extraction personnel
- Climb equipment or structures to access work areas
- Communicate with other construction or extraction personnel to discuss project details
- Confer with coworkers to coordinate work activities
- Connect electrical components or equipment
- Control power supply connections
- Create construction or installation diagrams
- Cut materials according to specifications or needs
- Dig holes or trenches
- Direct construction or extraction personnel
- Drive trucks or other vehicles to or at work sites
- Estimate construction project costs
- Fabricate parts or components
- Inspect electrical or electronic systems for defects
- Install electrical components, equipment, or systems
- Install insulation in equipment or structures
- Install metering equipment
- Lay cables to connect equipment
- Monitor work areas or procedures to ensure compliance with safety procedures

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Operate cranes, hoists, or other moving or lifting equipment
- Order construction or extraction materials or equipment
- Plan layout of construction, installation, or repairs
- Prepare operational reports
- Repair electrical circuits or wiring
- Repair electrical equipment
- Run wiring to connect equipment
- Solder parts or connections between parts
- Test electrical circuits or components for proper functioning
- Test electrical equipment or systems to ensure proper functioning
- Thread wire or cable through ducts or conduits
- Train construction or extraction personnel
- Travel to work sites to perform installation, repair or maintenance work
- Update job related knowledge or skills
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Electricians, 47-2111.00](#); [Electrical Power-Line Installers and Repairers, 49-9051.00](#)

[Return to the Table of Contents](#)

## Elevator Constructors

- Assemble products or production equipment
- Cut metal components for installation
- Evaluate construction projects to determine compliance with external standards or regulations
- Inspect electrical or electronic systems for defects
- Inspect industrial or commercial equipment to ensure proper operation
- Install electrical components, equipment, or systems
- Install metal structural components
- Locate equipment or materials in need of repair or replacement
- Maintain mechanical equipment
- Prepare operational reports
- Record operational or environmental data
- Repair electrical equipment
- Review blueprints or specifications to determine work requirements
- Test electrical equipment or systems to ensure proper functioning
- Thread wire or cable through ducts or conduits
- Update job related knowledge or skills
- Weld metal components
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Elevator and Escalator Installers and Repairers, 47-4021.00](#)

[Return to the Table of Contents](#)

## Explosives Workers and Blasters

- Assemble products or production equipment
- Clean equipment or facilities
- Collect geological samples
- Cut carpet, vinyl or other flexible materials
- Determine operational compliance with regulations or standards
- Develop equipment or component configurations
- Direct construction or extraction personnel
- Drill holes in earth or rock
- Drive trucks or truck-mounted equipment
- Load materials into construction equipment
- Maintain extraction or excavation equipment
- Mark reference points on construction materials
- Measure work site dimensions
- Monitor extraction operations
- Move materials, equipment, or supplies
- Operate communications equipment or systems
- Operate cranes, hoists, or other moving or lifting equipment
- Operate detonation equipment
- Order construction or extraction materials or equipment
- Position construction or extraction equipment
- Position safety or support equipment
- Pour materials into or on designated areas
- Prepare explosives for detonation

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Record operational or environmental data
- Remove debris or vegetation from work sites
- Select tools, equipment, or technologies for use in operations or projects
- Signal equipment operators to indicate proper equipment positioning
- Stock supplies or merchandise
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Explosives Workers, Ordnance Handling Experts, and Blasters, 47-5032.00](#)

[Return to the Table of Contents](#)

## Fence Erectors

- Communicate with clients about products, procedures, and policies
- Cut wood components for installation
- Determine appropriate locations for operations or installations
- Dig holes or trenches
- Install fencing or other barriers
- Install metal structural components
- Install wooden structural components
- Mark reference points on construction materials
- Measure work site dimensions
- Mix substances or compounds needed for work activities
- Operate detonation equipment
- Position structural components
- Pour materials into or on designated areas
- Verify alignment of structures or equipment
- Weld metal components
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Fence Erectors, 47-4031.00](#)

[Return to the Table of Contents](#)

## Floor Coverers

- Apply adhesives to construction materials
- Apply decorative or textured finishes or coverings
- Apply material to fill gaps in surfaces
- Apply sealants or other protective coatings
- Clean building walls or flooring
- Clean facilities or sites
- Clean surfaces in preparation for work activities
- Clean work sites
- Collect data about project sites
- Create construction or installation diagrams
- Cut carpet, vinyl or other flexible materials
- Estimate materials requirements for projects
- Finish concrete surfaces
- Inspect completed work to ensure proper installation
- Inspect work sites to determine condition or necessary repairs
- Install carpet or flooring
- Load materials into construction equipment
- Mark reference points on construction materials
- Measure materials or objects for installation or assembly
- Measure work site dimensions
- Plan layout of construction, installation, or repairs
- Prepare surfaces for finishing
- Remove excess materials from finished construction projects

[Return to the Table of Contents](#)



## Work-Related Task Lists by Construction Occupation

- Remove worn, damaged or outdated materials from work areas
- Review blueprints or specifications to determine work requirements
- Smooth surfaces with abrasive materials or tools
- Trim excess material from installations
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Carpet Installers, 47-2041.00](#); [Floor Sanders and Finishers, 47-2043.00](#); [Floor Layers, Except Carpet, Wood, and Hard Tiles, 47-2042.00](#)

[Return to the Table of Contents](#)

## Glaziers

- Apply adhesives to construction materials
- Apply decorative or textured finishes or coverings
- Apply material to fill gaps in surfaces
- Assemble temporary equipment or structures
- Communicate with clients about products, procedures, and policies
- Cut carpet, vinyl or other flexible materials
- Cut glass
- Cut metal components for installation
- Cut wood components for installation
- Dismantle equipment or temporary structures
- Drive trucks or truck-mounted equipment
- Fabricate parts or components
- Install building fixtures
- Install doors or windows
- Install metal structural components
- Install wooden structural components
- Load or unload materials used in construction or extraction
- Mark reference points on construction materials
- Measure materials or objects for installation or assembly
- Operate cranes, hoists, or other moving or lifting equipment
- Protect structures or surfaces near work areas to avoid damage
- Remove worn, damaged or outdated materials from work areas
- Review blueprints or specifications to determine work requirements

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Select construction materials
- Smooth surfaces with abrasive materials or tools
- Trim excess material from installations
- Verify alignment of structures or equipment
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Glaziers, 47-2121.00](#)

[Return to the Table of Contents](#)

## Heating, Air Conditioning, and Refrigeration Mechanics and Installers

- Adjust equipment to ensure optimal performance
- Advise others on issues related to repairs, installation, or equipment design
- Braze metal parts or components
- Confer with customers or users to assess problems
- Connect electrical components or equipment
- Cut materials according to specifications or needs
- Determine operational compliance with regulations or standards
- Document operational activities
- Drill holes in parts, equipment, or materials
- Inspect systems to determine if they are operating properly
- Install energy-efficient heating, ventilation, or air conditioning (HVAC) equipment
- Install heating, ventilation, or air conditioning (HVAC) equipment
- Install home appliances
- Install machine or equipment replacement parts
- Interpret blueprints, specifications, or diagrams to inform installation, development or operation activities
- Lay out work according to specifications
- Maintain repair or maintenance records
- Measure distances or dimensions
- Operate cranes, hoists, or other moving or lifting equipment
- Order materials, supplies, or equipment
- Repair worn, damaged, or defective mechanical parts

## Work-Related Task Lists by Construction Occupation

- Replace worn, damaged, or defective mechanical parts
- Schedule repair, installation or maintenance activities
- Service heating, ventilation or air-conditioning (HVAC) systems or components
- Supervise employees
- Test electrical circuits or components for proper functioning
- Test mechanical systems to ensure proper functioning
- Train others in operational procedures
- Travel to work sites to perform installation, repair or maintenance work
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Heating, Air Conditioning, and Refrigeration Mechanics and Installers, 49-9021.00](#)

[Return to the Table of Contents](#)

## Insulators

- Apply adhesives to construction materials
- Apply sealants or other protective coatings
- Asbestos abatement and firestopping
- Cut carpet, vinyl or other flexible materials
- Install insulation in equipment or structures
- Install metal structural components
- Load materials into construction equipment
- Measure materials or objects for installation or assembly
- Prepare surfaces for finishing
- Remove worn, damaged or outdated materials from work areas
- Review blueprints or specifications to determine work requirements
- Select construction materials
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Insulation Workers, Floor, Ceiling, and Wall, 47-2131.00](#); [Insulation Workers, Mechanical 47-2132.00](#). Additional edit to task list made based on expert review.

## Iron Workers

- Ascend/descend ladders, scaffolds, etc. to access work areas
- Assemble temporary equipment or structures
- Assemble/disassemble cranes and other lifting equipment (lifting heavy loads)
- Assist skilled construction or extraction personnel
- Bend and/or cut metal components for installation
- Dismantle equipment or temporary structures
- Don/doff P P E; including respiratory protection
- Fabricate parts or components (work with punch presses, shear presses, cutters, grinders, changing dies, etc.)
- Install electrical components, equipment, or systems
- Install fencing or other barriers
- Install gauges or controls (lifting of heavy weight)
- Install insulation in equipment or structures (exposure to insulation materials and other chemical agents)
- Install metal structural components
- Lift rebar (frequent lifting and movement of heavy weight and working from a bent-over posture)
- Load or unload materials used in construction or extraction
- Manipulate/position heavy loads (such as load that is suspended)
- Mount/dismount tractor-trailer truck beds; other truck beds
- Must be strong enough to move heavy materials and components into place. Many are up to 100 lbs. in weight.
- Operate cranes, hoists, or other moving or lifting equipment
- Operate specialty equipment such as hydraulic fork jacks (push/pull)

## Work-Related Task Lists by Construction Occupation

- Position safety or support equipment
- Position structural components
- Remote work often leads to lack of access to personal hygiene facilities (toilets, wash facilities)
- Review blueprints or specifications to determine work requirements
- Ride lifts (donning full body harness) to ascend/descend to work location
- Rivet metal components
- Signal equipment operators to indicate proper equipment positioning
- Use striking equipment (such as sledge-hammers)
- Utilize rigging components which can range from 2 to in excess of 50 pounds (slings, chokers, shackles, pins, etc.)
- Verify alignment of structures or equipment
- Wear tool belts that range from 20 to 60 pounds in weight
- Weld/burn metal components (metal coatings; welding fumes, such as lead, cadmium, hexavalent chromium, zinc, aluminum, stainless steel, etc.)
- Work in confined spaces (wearing full body harness and other PPE)
- Work in various hot and cold environments, potentially extreme
- Work at heights wearing Personal Fall Arrest Equipment (full body harness, lanyard, anchorage, etc.)
- Work with equipment that has frequent vibration (impact guns, grinders, hole drilling equipment, etc.)
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Reinforcing Iron and Rebar Workers, 47-2171.00](#); [Structural Iron and Steel Workers, 47-2221.00](#).  
 Additional edits to task list made based on expert review.



## Manufactured Building and Mobile Home Installers

- Confer with customers or users to assess problems
- Connect electrical components or equipment
- Connect hoses to equipment or piping
- Control power supply connections
- Cut materials according to specifications or needs
- Estimate costs for labor or materials
- Inspect systems to determine if they are operating properly
- Install home appliances
- Install prefabricated or manufactured structures
- Move large objects using heavy equipment
- Plan work procedures
- Read work orders or descriptions of problems to determine repairs or modifications needed
- Reassemble equipment after repair
- Record information about parts, materials or repair procedures
- Refinish wood or metal surfaces
- Remove parts or components from equipment
- Repair electrical circuits or wiring
- Repair pipes to stop leaking
- Repair structural components
- Seal gaps or cracks to prevent leakage or moisture intrusion
- Test mechanical equipment to ensure proper functioning

Relevant O\* NET Entries: [Manufactured Building and Mobile Home Installers, 49-9095.00](#)

### Millwrights

- Adjust equipment to ensure optimal performance
- Adjust the tension of nuts or bolts
- Align equipment or machinery
- Assemble mechanical components or machine parts
- Bolt objects into place
- Communicate with coworkers to coordinate installations or repairs
- Dismantle heavy equipment or machinery
- Drill holes in parts, equipment, or materials
- Fabricate parts or components
- Grind parts to required dimensions
- Install programs onto computer or computer-controlled equipment
- Lay out work according to specifications
- Level machines or equipment
- Lubricate equipment to allow proper functioning
- Maintain work equipment or machinery
- Move materials, equipment, or supplies
- Operate cranes, hoists, or other moving or lifting equipment
- Operate heating or drying equipment
- Operate welding equipment
- Position equipment using hand tools, power tools, or heavy equipment
- Repair worn, damaged, or defective mechanical parts
- Replace worn, damaged, or defective mechanical parts
- Test mechanical equipment to ensure proper functioning

[Return to the Table of Contents](#)

# Work-Related Task Lists by Construction Occupation

Troubleshoot equipment or systems operation problems

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Relevant O\* NET Entries: [Millwrights, 49-9044.00](#)

**[Return to the Table of Contents](#)**

## Operating Engineers and Other Construction Equipment Operators

- Adjust equipment controls to regulate coolant flow
- Align parts or workpieces to ensure proper assembly
- Apply material to fill gaps in surfaces
- Assemble metal or plastic parts or products
- Assemble temporary equipment or structures
- Assist skilled construction or extraction personnel
- Break up rock, asphalt, or concrete
- Build construction forms or molds
- Clean equipment or facilities
- Clean machinery or equipment
- Climb ladders or vehicles to perform duties
- Communicate with clients about products, procedures, and policies
- Communicate with others to coordinate material handling or movement
- Compact materials to create level bases
- Connect cables or electrical lines
- Coordinate construction project activities
- Cut tile, stone, or other masonry materials
- Direct construction or extraction personnel
- Direct material handling or moving activities
- Direct vehicle traffic
- Dismantle equipment or temporary structures

- Draw guide lines or markings on materials or workpieces using patterns or other references
- Drill holes in parts, equipment, or materials
- Drive trucks or truck-mounted equipment
- Estimate construction project costs
- Inspect equipment or tools to be used in construction or excavation
- Inspect material-moving equipment to detect problems
- Inspect work to ensure standards are met
- Install equipment attachments or components
- Install parts, assemblies, or attachments in transportation or material handling equipment
- Lift materials or workpieces using cranes or other lifting equipment
- Load materials into construction equipment
- Load or unload materials used in construction or extraction
- Load shipments, belongings, or materials
- Locate equipment or materials in need of repair or replacement
- Maintain construction tools or equipment
- Maintain material moving equipment in good working condition
- Mark reference points on construction materials
- Measure dimensions of completed products or workpieces to verify conformance to specifications
- Monitor construction operations
- Monitor equipment gauges or displays to ensure proper operation
- Mount attachments or tools onto production equipment
- Mount materials or workpieces onto production equipment
- Move construction or extraction materials to locations where they are needed

## Work-Related Task Lists by Construction Occupation

- Move materials, equipment, or supplies
- Operate cranes, hoists, or other moving or lifting equipment
- Operate equipment or vehicles to clear construction sites or move materials
- Operate grinding equipment
- Operate heavy-duty construction or installation equipment
- Operate pumps or compressors
- Operate road-surfacing equipment
- Position construction or extraction equipment
- Position material handling equipment
- Read work orders or other instructions to determine product specifications or materials requirements
- Record operational or environmental data
- Record operational or production data
- Remove debris or vegetation from work sites
- Replace worn equipment components
- Review blueprints or other instructions to determine operational methods or sequences
- Review blueprints or specifications to determine work requirements
- Review work orders or schedules to determine operations or procedures
- Secure cargo
- Select construction equipment
- Select project materials
- Set equipment controls to meet cutting specifications
- Sharpen cutting or grinding tools
- Signal equipment operators to indicate proper equipment positioning

## Work-Related Task Lists by Construction Occupation

- Signal others to coordinate vehicle movement
- Signal others to coordinate work activities
- Spread concrete or other aggregate mixtures
- Spread sand, dirt or other loose materials onto surfaces
- Study blueprints or other instructions to determine equipment setup requirements
- Test air quality at work sites
- Update job related knowledge or skills
- Verify information or specifications
- Watch operating equipment to detect malfunctions
- Weigh materials to ensure compliance with specifications
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic, 51-4032.00](#); [Hoist and Winch Operators, 53-7041.00](#); [Operating Engineers and Other Construction Equipment Operators, 47-2073.00](#); [Paving, Surfacing, and Tamping Equipment Operators, 47-2071.00](#); [Crane and Tower Operators, 53-7021.00](#)

[Return to the Table of Contents](#)

## Painters, Paperhangers, and Tapers

- Apply adhesives to construction materials
- Apply decorative or textured finishes or coverings
- Apply material to fill gaps in surfaces
- Apply paint to surfaces
- Apply sealants or other protective coatings
- Assemble temporary equipment or structures
- Clean surfaces in preparation for work activities
- Climb equipment or structures to access work areas
- Cut carpet, vinyl or other flexible materials
- Drill holes in construction materials
- Estimate construction project costs
- Estimate materials requirements for projects
- Evaluate quality of materials or products
- Implement advertising or marketing initiatives
- Inspect completed work to ensure proper installation
- Install metal structural components
- Mark reference points on construction materials
- Measure materials or objects for installation or assembly
- Measure work site dimensions
- Mix substances or compounds needed for work activities
- Operate heating or drying equipment
- Order construction or extraction materials or equipment
- Prepare surfaces for finishing

[Return to the Table of Contents](#)



## Work-Related Task Lists by Construction Occupation

- Protect structures or surfaces near work areas to avoid damage
- Remove excess materials from finished construction projects
- Remove worn, damaged or outdated materials from work areas
- Review blueprints or specifications to determine work requirements
- Select construction equipment
- Select construction materials
- Smooth surfaces with abrasive materials or tools
- Trim excess material from installations
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Painters, Construction and Maintenance, 47-2141.00](#); [Paperhangers, 47-2142.00](#); [Tapers, 47-2082.00](#)

[Return to the Table of Contents](#)

## Pile Driver Operators

- Clean equipment or facilities
- Inspect equipment or tools to be used in construction or excavation
- Maintain construction tools or equipment
- Operate cranes, hoists, or other moving or lifting equipment
- Operate heavy-duty construction or installation equipment
- Position structural components
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Pile Driver Operators, 47-2072.00](#)

[Return to the Table of Contents](#)

## Pipelayers

- Apply adhesives to construction materials
- Communicate with other construction or extraction personnel to discuss project details
- Compact materials to create level bases
- Cut metal components for installation
- Dig holes or trenches
- Direct construction or extraction personnel
- Drill holes in construction materials
- Drive trucks or truck-mounted equipment
- Evaluate projects to determine compliance with technical specifications
- Install plumbing or piping
- Locate equipment or materials in need of repair or replacement
- Maintain plumbing structures or fixtures
- Mark reference points on construction materials
- Operate equipment or vehicles to clear construction sites or move materials
- Position hand tools
- Spread sand, dirt or other loose materials onto surfaces
- Train construction or extraction personnel
- Weld metal components
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Pipelayers, 47-2151.00](#)

[Return to the Table of Contents](#)

## Plasterers

- Apply decorative or textured finishes or coverings
- Assemble temporary equipment or structures
- Clean equipment or facilities
- Clean surfaces in preparation for work activities
- Estimate materials requirements for projects
- Fabricate parts or components
- Install insulation in equipment or structures
- Install trim or paneling
- Mark reference points on construction materials
- Mix substances or compounds needed for work activities
- Order construction or extraction materials or equipment
- Prepare surfaces for finishing
- Protect structures or surfaces near work areas to avoid damage
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Plasterers and Stucco Masons, 47-2161.00](#)

[Return to the Table of Contents](#)

## Plumbers, Pipefitters, and Steamfitters

- Clean equipment or facilities
- Create construction or installation diagrams
- Cut metal components for installation
- Cut openings in existing structures
- Direct construction or extraction personnel
- Estimate construction project costs
- Estimate construction project labor requirements
- Fabricate parts or components
- Inspect plumbing systems or fixtures
- Inspect work sites to determine condition or necessary repairs
- Inspect work sites to identify potential environmental or safety hazards
- Install gauges or controls
- Install green plumbing or water handling systems
- Install plumbing or piping
- Maintain plumbing structures or fixtures
- Mark reference points on construction materials
- Measure materials or objects for installation or assembly
- Operate pumps or compressors
- Plan layout of construction, installation, or repairs
- Record operational or environmental data
- Remove parts or components from equipment
- Repair worn, damaged, or defective mechanical parts
- Replace worn, damaged, or defective mechanical parts

[Return to the Table of Contents](#)

## Work-Related Task Lists by Construction Occupation

- Review blueprints or specifications to determine work requirements
- Select construction materials
- Weld metal components
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Plumbers, Pipefitters, and Steamfitters, 47-2152.00](#)

[Return to the Table of Contents](#)

## Riggers

- Align equipment or machinery
- Attach rigging to objects so they can be moved
- Clean equipment, parts, or tools to repair or maintain them in good working order
- Communicate with coworkers to coordinate installations or repairs
- Determine types of equipment, tools, or materials needed for jobs
- Dismantle heavy equipment or machinery
- Load materials or equipment
- Move materials, equipment, or supplies
- Operate cranes, hoists, or other moving or lifting equipment
- Test mechanical systems to ensure proper functioning
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Riggers, 49-9096.00](#)

[Return to the Table of Contents](#)

## Roofers

- Apply adhesives to construction materials
- Apply paint to surfaces
- Apply sealants or other protective coatings
- Assemble temporary equipment or structures
- Cut carpet, vinyl or other flexible materials
- Drill holes in construction materials
- Estimate construction project labor requirements
- Estimate materials requirements for projects
- Inspect work sites to determine condition or necessary repairs
- Install doors or windows
- Install green structural components, equipment or systems
- Install insulation in equipment or structures
- Install roofing materials
- Install solar energy systems
- Pour materials into or on designated areas
- Remove debris or vegetation from work sites
- Smooth surfaces with abrasive materials or tools
- Spread sand, dirt or other loose materials onto surfaces
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Roofers, 47-2181.00](#)



## Sheet Metal Workers

- Assemble products or production equipment
- Create construction or installation diagrams
- Direct construction or extraction personnel
- Evaluate construction projects to determine compliance with external standards or regulations
- Fabricate parts or components
- Inspect completed work to ensure proper installation
- Inspect industrial or commercial equipment to ensure proper operation
- Install building fixtures
- Install green structural components, equipment or systems
- Install plumbing or piping
- Install roofing materials
- Maintain construction tools or equipment
- Mark reference points on construction materials
- Measure materials or objects for installation or assembly
- Move construction or extraction materials to locations where they are needed
- Plan layout of construction, installation, or repairs
- Position structural components
- Review blueprints or specifications to determine work requirements
- Select construction materials
- Smooth surfaces with abrasive materials or tools
- Train construction or extraction personnel
- Weld metal components

Relevant O\* NET Entries: [Sheet Metal Workers, 47-2211.00](#)

[Return to the Table of Contents](#)

## Solar Thermal Installers and Technicians

- Apply adhesives to construction materials
- Apply identification labels or tags
- Apply sealants or other protective coatings
- Assess locations for potential green technology installations
- Communicate with clients about products, procedures, and policies
- Cut carpet, vinyl or other flexible materials
- Determine appropriate locations for operations or installations
- Inspect industrial or commercial equipment to ensure proper operation
- Inspect plumbing systems or fixtures
- Install gauges or controls
- Install insulation in equipment or structures
- Install plumbing or piping
- Install solar energy systems
- Maintain mechanical equipment
- Pour materials into or on designated areas
- Test electrical equipment or systems to ensure proper functioning
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Solar Thermal Installers and Technicians, 47-2152.04](#)

## Telecommunications

- Adjust equipment to ensure optimal performance
- Advise others on issues related to repairs, installation, or equipment design
- Analyze test or performance data to assess equipment operation
- Assemble electrical components, subsystems, or systems
- Assemble structural components
- Calculate requirements for equipment installation or repair projects
- Clean equipment, parts, or tools to repair or maintain them in good working order
- Clean work areas
- Climb equipment or structures to access work areas
- Collect payments for goods or services
- Compact materials to create level bases
- Confer with coworkers to resolve equipment problems
- Connect electrical components or equipment
- Determine types of equipment, tools, or materials needed for jobs
- Dig holes or trenches
- Document operational activities
- Drive trucks or other vehicles to or at work sites
- Enter codes or other information into computers
- Explain use of products or services
- Gather information about work conditions or locations
- Inspect telecommunications equipment to identify problems
- Install audio or communications equipment
- Install electrical components, equipment, or systems

## Work-Related Task Lists by Construction Occupation

- Install insulation in equipment or structures
- Install programs onto computer or computer-controlled equipment
- Interpret blueprints, specifications, or diagrams to inform installation, development or operation activities
- Investigate legal issues
- Lay cables to connect equipment
- Lubricate equipment to allow proper functioning
- Maintain work equipment or machinery
- Measure distances or dimensions
- Measure equipment outputs
- Move large objects using heavy equipment
- Operate cranes, hoists, or other moving or lifting equipment
- Paint surfaces or equipment
- Read technical information needed to perform maintenance or repairs
- Repair electrical components
- Repair electronic equipment
- Rewire electrical or electronic systems
- Run wiring to connect equipment
- Service vehicles to maintain functionality
- Test communications equipment to ensure proper functioning
- Test electrical circuits or components for proper functioning
- Travel to work sites to perform installation, repair or maintenance work
- Troubleshoot equipment or systems operation problems
- Verify information or specifications

Relevant O\* NET Entries: [Telecommunications Line Installers and Repairers, 49-9052.00](#); [Telecommunications Equipment Installers and Repairers, Except Line Installers, 49-2022.00](#)

[Return to the Table of Contents](#)

## Welders, Cutters, Solderers, and Brazers

- Adjust equipment controls to regulate gas flow
- Align parts or workpieces to ensure proper assembly
- Assemble temporary equipment or structures
- Clean production equipment
- Clean workpieces or finished products
- Cut industrial materials in preparation for fabrication or processing
- Design templates or patterns
- Determine metal or plastic production methods
- Disassemble equipment for maintenance or repair
- Heat material or workpieces to prepare for or complete production
- Ignite fuel to activate heating equipment
- Maintain safety
- Mark products, workpieces, or equipment with identifying information
- Measure dimensions of completed products or workpieces to verify conformance to specifications
- Melt metal, plastic, or other materials to prepare for production
- Monitor equipment operation to ensure that products are not flawed
- Mount materials or workpieces onto production equipment
- Notify others of equipment repair or maintenance needs
- Operate firefighting equipment
- Operate grinding equipment
- Operate metal or plastic forming equipment
- Operate welding equipment

## Work-Related Task Lists by Construction Occupation

- Repair parts or assemblies
- Reshape metal workpieces to established specifications
- Review blueprints or other instructions to determine operational methods or sequences
- Select production equipment according to product specifications
- Shape metal workpieces with hammers or other small hand tools
- Solder parts or workpieces
- Trim excess material from workpieces
- Watch operating equipment to detect malfunctions
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Relevant O\* NET Entries: [Welders, Cutters, Solderers, and Brazers, 51-4121.00](#)

[Return to the Table of Contents](#)