



Boilermaker 1

Job summary

The [Boilermaker](https://100hires.com/boilermaker-job-description.html) is responsible for reading blueprints and specifications to determine the scope of work: location, quantities, and sizes of materials required. Identify all tools required for tasks and identify safety risks and the precautions required to eliminate those risks.

Responsibilities

- Repair and replace trays
- Repair and replace boiler tubes
- Flame cutting
- Advanced layout, where required
- Identify materials and layout on trays
- Install valves, trays and strainers
- Introduction to piping systems
- Pipefitting
- Manually cut pipe
- Basic rigging

Requirements

- Minimum 4 years of experience in the [boilermaker](https://100hires.com/boilermaker-job-description.html) craft industry
- Must know towers/columns, exchangers
- Must also have the ability to perform advanced blueprint reading
- Knowledge of the bundles pulling process

Boilermaker 2

Job summary

A [Boilermaker](https://100hires.com/boilermaker-job-description.html) supervises and coordinates the activities of workers engaged in the assembly, erection, testing, and repair of boilers, tanks, vats, and pressure vessels.

Responsibilities

- Supervise and coordinate activities of boilermakers engaged in the construction, assembly, maintenance, and repair of



steam boilers and boiler house auxiliaries.

Tactically plan operations for scheduling workloads in crews efficiently utilizing assets and resources to minimize cost.

Read blueprints and specifications to determine the scope of work: locations, quantities, and sizes of materials required.

Interpret specifications, blueprints, and job orders to workers, and assigns duties.

Identify all tools required for tasks.

Identify safety risks and the precautions required to eliminate those risks.

Direct workers in the selection of type and location of rigging and equipment to lift components into positions.

Direct crafts in the assembly of the unit.

Lay out the location and position of drums and headers on frames, modules, or walls to ensure the specified alignment of tubes.

Verify dimensions of accessories, such as chutes, fan stands, uptakes, stacks, ducts, and ladders, needed to adapt boiler or tank to location.

Direct workers in the repair of boilers, tanks, vats, and pressure vessels.

May construct templates of wood, paper, or sheet metal to facilitate layout tasks.

Trains subordinates in job-specific requirements.

Responsible for the safety conformance of all crews.

Study construction schedules and estimates work-hour requirements for completion of job assignment.

Establish or adjust work procedures to meet schedules.

Recommend measures to improve productivity and quality of work performed.

Analyze and resolve work problems or assists worker in resolution.

Initiate or suggest plans to motivate workers to achieve project goals.

Recommend or initiate personnel actions such as promotions, transfers, discharges, and disciplinary measures.

Maintains time and productivity records.

May inspect, estimate, and requisition materials.

Confer with other crafts to coordinate activities of crew or crews.

Is required to be adept in the activities of the workers supervised.

Responsible for observing and complying with all safety and project rules.

Ensure that completed work meets specifications.

Illustrate in-depth knowledge of all [boilermaker](https://100hires.com/boilermaker-job-description.html) processes.

Other duties as assigned.

Requirements

Must have 5+ years of experience with the boiler and pipe fitting processes and 1+ years of experience in a supervisory role.



Must be able to read, write and communicate clearly with supervisor/co-workers and understand direction from supervisor.

Must be able to utilize basic math and read a variety of precision measuring tools and gauges.

Must be able to lift to 50 pounds, climb, bend, twist, stand, and reach repetitively, operate moving equipment, and work in hot/cold/damp/cramped environments.

Must be able to work at heights up to 200 feet.

Candidate may be required to pass a drug test and criminal background check based on job location/requirements.

Boilermaker 3

Job summary

The [Boilermaker](https://100hires.com/boilermaker-job-description.html) oversees a crew that assembles, analyzes for defects, and repairs boilers, tanks, vats and pressure vessels, boiler auxiliaries, and ancillaries according to blueprint specifications, using power tools and hand tools.

Responsibilities

Locates and marks reference points for columns or plates on foundation, sing master straight edge, squares, transit and measuring tape and applying knowledge of geometry.

Attaches rigging or signals [crane operator](https://100hires.com/crane-operator-job-description.html) to lift components to the specified position.

Aligns structures or plate sections to assemble boiler frames, tanks, or vats using plumb bobs, levels, wedges, dogs, or turnbuckles.

Hammers, flame-cuts, and files grind irregular edges of sections or structural parts to facilitate fitting edges together.

Bolts or arc-welds structures and sections together.

Positions drums and headers into supports or bolts or welds support to frame.

Aligns water tubes connects and expands ends to drums and headers using tube expander.

Bolts or welds casing sections, uptakes, stacks, baffles, and such fabricated parts as chutes, air heaters, fan stands, feeding tubes, catwalks, ladders, coal hoppers, and safety hatch to frame using wrenches

Performs minor maintenance or cleaning activities with tools and equipment.

Installs manholes, handholds, valves, gauges, and feed water connection in drums to complete assembly of water tube boilers.

Signals [crane operator](https://100hires.com/crane-operator-job-description.html) lifting parts to specific positions.

Assists in testing assembled vessels by pumping water or gas under specified pressure into vessels and observing instruments for evidence of leakage.



Repairs boilers or tanks in the field by unbolting or flame-cutting defective sections or tubes, straightening plates using torches or jacks, installing new tubes, fitting and welding new sections, and replacing worn lugs on bolts.

May fasten and caulk sections of vessels, using pneumatic fasteners and caulking hammers.

May line firebox with refractory brick and blocks.

May fabricate parts such as stacks, uptakes, and chutes to adapt the boiler to the premises in which it is installed.

Flame cutting and knowledge of torch use.

Responsible for observing and complying with all safety and project rules. Performs other duties as required.

Requirements

May require a high school diploma or its equivalent with previous years of experience in the field or a related area.

Has knowledge of commonly-used concepts, practices, and procedures within a particular field.

Relies on instructions and pre-established guidelines to perform the functions of the job.

Works under some supervision, and will typically report to a General Foreman or Site Manager.

Must have the ability to make some decisions about tasks assigned.

Boilermaker 4

Job summary

Boilermaker will construct iron/steel structures to specifications. They will work on the construction of a Heat Recovery Exchange Generator, and other miscellaneous structures involved with the construction of a Combined-Cycle Power Plant.

Responsibilities

Read blueprints and specifications to determine the scope of work: locations, quantities, and sizes of materials required.

Identify all tools required for tasks.

Identify safety risks and the precautions required to eliminate those risks.

Fabricate equipment according to blueprints or instructions from supervisors.

Hoist equipment and tools into location via bull rigging or crane.

Verify vertical and horizontal alignment of structural-steel members, using plumb bobs, laser equipment, transits, and/or levels.

Connect columns, beams, and girders with bolts, following blueprints and instructions from supervisors.

Bolt-aligned structural-steel members in position for permanent riveting or bolting.

Pull, push, or pry iron/steel equipment into approximate positions for bolting into place.

Cut, bend, and weld iron/steel pieces, using metal shears, torches, and welding equipment.



Requirements

Must have 4+ years' experience as an NCCER Journeyman Boilermaker.

Experience on a Gas-fired Combined-Cycle power unit HRSG unit.

Must be able to meet all physical requirements.

Must be able to work at heights over 300 ft.

Must have all required tools.

Must have reliable transportation.

Boilermaker 5

Job summary

The [Boilermaker](https://100hires.com/boilermaker-job-description.html) assembles, analyzes defects in, and repairs boilers, boiler auxiliaries and ancillaries, pressure vessels, tanks, and vats in the field, following blueprints and using hand tools and portable power tools and equipment. This will be completed in a safe and timely manner with the highest quality possible.

Responsibilities

Reasonable accommodations may be made to enable individuals with disabilities to perform essential functions.

Read specifications to determine the location, quantity, and sizes of materials.

Locate and mark reference points for columns or plates on the foundation, using master straightedge, squares, transit, and measuring tape, and applying knowledge of geometry.

Bell, bead with power hammer pressure vessel tube ends to ensure leakproof joints.

Bolt pressure vessel structures and parts together.

Inspect boiler tubes, vessels, and tanks for flaws or defects so they can be repaired.

Install manholes, hand holes, taps, valves, gauges, and feed water connections in the drums of water tube boilers.

Install refractory brick and other heat-resistant materials in fireboxes of pressure vessels.

Lay out plate, sheet steel, and other metal and locate cutting lines using protractors, compasses, and drawing instruments.

Repair or replace defective parts.

Clean pressure vessel equipment using wire brushes and cleaning solvents.

Maintain the work area in a clean and tidy manner.

Other duties as assigned.

Requirements



Must be at least 18 years of age.

Minimum of 3 years of experience working in the field.

Must be able to read, write and communicate clearly with supervisor/co-workers and understand direction from supervisor.

Must be able to utilize basic math and read a variety of precision measuring tools and gauges.

Must be able to lift to 50 pounds, climb, bend, twist, stand, and reach repetitively, operate moving equipment, and work in hot/cold/damp/cramped environments.

Must be able to work at heights up to 200 feet.

Candidate may be required to pass a drug test and criminal background check based on job location/requirements.

Boilermaker 6

Job summary

The [Boilermaker](https://100hires.com/boilermaker-job-description.html) constructs, assembles, maintains, and repairs stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. Works involve the use of hand and power tools, plumb bobs, levels, wedges, dogs, or turnbuckles. Assists in testing assembled vessels. Engages in the direct cleaning of boilers and boiler furnaces. Inspects and repairs boiler fittings, such as safety valves, regulators, automatic-control mechanisms, water columns, and auxiliary machines. This is accomplished by performing the following essential duties and responsibilities. Other duties may be assigned.

Responsibilities

Examine boilers, pressure vessels, tanks, or vats to locate defects, such as leaks, weak spots, or defective sections, so they can be repaired.

Bolt or arc welds pressure vessel structures and parts together, using wrenches or welding equipment.

Inspect assembled vessels or individual components, such as tubes, fittings, valves, controls, or auxiliary mechanisms, to locate any defects.

Repair or replace defective pressure vessel parts, such as safety valves or regulators, using torches, jacks, caulking hammers, power saws, threading dies, welding equipment, or metalworking machinery.

Attach rigging and signal crane or hoist operators to lift heavy frame and plate sections or other parts into place.

Bell, bead with power hammers, or weld pressure vessel tube ends to ensure leakproof joints.

Lay out plate, sheet steel, or other heavy metal and locate and mark bending and cutting lines, using protractors, compasses, and drawing instruments or templates.

Install manholes, handholds, taps, tubes, valves, gauges, or feed water connections in drums of water tube boilers, using hand tools.

Study blueprints to determine locations, relationships, or dimensions of parts.



Straighten or reshape bent pressure vessel plates or structure parts, using hammers, jacks, or torches.

Shape seams, joints, or irregular edges of pressure vessel sections or structural parts to attain a specified fit of parts, using cutting torches, hammers, files, or metalworking machines.

Position, align, and secure structural parts or related assemblies to boiler frames, tanks, or vats of pressure vessels, following blueprints.

Locate and mark reference points for columns or plates on boiler foundations, following blueprints and using straightedges, squares, transits, or measuring instruments.

Shape or fabricate parts, such as stacks, uptakes, or chutes, to adapt pressure vessels, heat exchangers, or piping to premises, using heavy-metalworking machines such as brakes, rolls, or drill presses.

Clean pressure vessel equipment, using scrapers, wire brushes, and cleaning solvents.

Install refractory bricks or other heat-resistant materials in fireboxes of pressure vessels.

Assemble large vessels in an on-site fabrication shop before installation to ensure proper fit.

Other duties as assigned.

Requirements

Education – no minimum education requirements

Experience – 3-5 years of Journeyman level experience

Valid Driver's License

TWIC Card

NCCER-Ind BM Certified

Boilermaker 7

Job summary

Our company is looking for a highly motivated, self-starting Boilermaker.

Responsibilities

Oxygen Cutting (Acetylene)

Brazing of Copper Piping

Pipefitting & Plumbing

Prepare boilers for inspection

Mechanical installation of boilers & boiler related equipment

Remove and replace tubes on boilers

Refractory repair and installation



Perform all other duties assigned by the Service Manager & Service Coordinator

Requirements

High school diploma or equivalent

23 years relevant experience in service, repair, and/or mechanical operations

Must have a valid driver's license

Knowledge in boiler service, repair, and/or operations desirable, but not required

Past pipefitting and/or plumbing experience desirable, but not required

Basic computer skills

Boilermaker 8

Job summary

The [Boilermaker](https://100hires.com/boilermaker-job-description.html) will consist of but not be limited to repair and/or demolition of boiler components and supervision of work crews.

Responsibilities

Oversee Boilermakers who will repair or replace defective pressure vessels parts, such as safety valves or regulator

Oversee demolition and structural fitting

Working knowledge of rigging and signal crane or hoist operators to lift heavy frame and plate sections or other parts into place

Study Blueprints to determine locations, relationships, or dimensions of parts

Must be familiar with industrial power and hand tools

Must be familiar with [boilermaker](https://100hires.com/boilermaker-job-description.html) tools

Follows direction from supervisor

Other duties as assigned

Requirements

Proficient mechanical skills

Knowledge of machines and tools, including their designs, uses, repair, and maintenance

Able to communicate items of concern found during inspections and walk downs

Knowledge of industrial machinery and equipment

Organization and time management

Must have good aptitude and manual dexterity



- Good reading comprehension
- Ability to work with others – team player
- Good communication skills with co-workers and supervisors
- Must have experience using industrial hand tools and power tools
- Must have reliable transportation
- Knowledge of safety practices to operate equipment
- Industrial Boiler leadership experience
- Minimum 4-5 years industrial maintenance

Boilermaker 9

Job summary

This is a [Boilermaker](https://100hires.com/boilermaker-job-description.html) position. Must have a minimum of three years experience in boilers or HVAC, piping skills, pipe fitting, retubing, welding, and assembly of boilers, tanks, vats, and pressure vessels according to blueprint specifications or manuals, using power tools and hand tools. Researches technical drawings/diagrams/materials to ensure appropriate parts are pulled for a specific job. Be able to work with others. Be a team player with good communication skills and writing skills. Have an understanding of maintenance and interpretation of job scopes.

Responsibilities

- Assembles boilers, tanks, vats, and pressure vessels according to blueprint specifications, using power tools and hand tools: Reads blueprint to determine location and relationship of parts.
- Connects fire tubes to heads or water tubes to drums and headers of boilers, by expanding and belling ends, using tube expander and beading ends, using a power hammer.
- Drills and taps holes for installation of studs, using a portable drill.
- Tightens bolts to assemble frames, using hand or power wrenches.
- Mounts casings of water tube boilers or attaches davit heads, burners, or furnace casing to fire tube boilers, using wrenches.
- Bolts or screws accessories, such as man-holes, hand-holes, fans, gauges, and valves to vessels, using hand tools or power wrenches. Replaces defective parts or piping, using power wrenches, prying bars, or hand tools.
- May install and repair refractory brick or furnace tile.
- May thread and install pipe, using pipe wrench and dies.
- May remove and replace insulation and caulk seams to repair insulation on shells, piping, boiler fire-sides, or structures.
- May cut out defective parts, boiler tubes, or tube ends using an acetylene torch.

Requirements



Workers should be able to: Work within precise limits or standards of accuracy; make decisions based on measurable criteria; and visualize objects in three dimensions from plans and drawings.

Physically, workers must be able to: Work easily and skillfully with hands; lift and carry objects weighing up to 50 pounds; see well (either naturally or with correction); climb and maintain balance on high ladders and scaffolds; and stand, stoop, kneel, or crouch.

Must have a valid current driver's license.

A High School diploma or equivalent is mandatory.

Computer competency including Outlook, Word, and Excel. A basic understanding of HVAC industry terminology is a plus.

This position requires at least three years of experience in a similar industrial/technical position.

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Job summary

We are looking for a [Boilermaker](https://100hires.com/boilermaker-job-description.html) to join our team.

Responsibilities

Read blueprints and specifications to determine the scope of work: locations, quantities, and sizes of materials required.

Identify all tools required for tasks.

Identify safety risks and the precautions required to eliminate those risks.

Fabricate equipment according to blueprints or instructions from supervisors.

Hoist equipment and tools into location via bull rigging or crane.

Verify vertical and horizontal alignment of structural-steel members, using plumb bobs, laser equipment, transits, and/or levels.

Connect columns, beams, and girders with bolts, following blueprints and instructions from supervisors.

Bolt-aligned structural-steel members in position for permanent riveting or bolting.

Pull, push, or pry iron/steel equipment into approximate positions for bolting into place.

Cut, bend, and weld iron/steel pieces, using metal shears, torches, and welding equipment.

Requirements

Leadership Abilities

Ability to take the lead in the erection of steel, fabrication, grid layout, rigging, etc.

Ability to perform all job duties of craft trade.

Drawings



Ability to read, and understand IFC drawings.

Ability to make a hang list read details off drawings, read all notes on drawings before erection, locate and understand ECNs and holds on drawings.

Understand when to stop production work and when an RFI needs to be initiated.

Read and understand craft specs and cut sheets, craft spec procedures, and recommendations

Able to locate piece marks for correct views and know how to pick out different elevations

Being able to know the correct installation based on the orientation.

Knowledge of symbols based on legend

Rigging

Knowledge of all types of safe rigging practices (chokers, slings, etc.)

Ability to dictate correct knots based on material

Connection

Know all aspects of connecting

Correct procedures of Bolting