



Pipe Fitting Journeymen

Job Description

Primary job requirements include being able to design, install, maintain, repair, remove and replace piping and valve systems in an efficient and safe manner. Piping systems may be used to deliver or evacuate water, high and low-pressure steam, acids and slurries to or from various structures.

Reports To: Trade Supervisor

Supervises: Journeymen 1 and 2 supervise the activities of their crew. Journeymen 3 supervise all crews for all jobs assigned to them

Typical Duties

- Selects size and type of piping according to products being fabricated and knowledge of metal.
- Supervise and coordinate activities of assigned craft workers.
- Interpret specifications, blueprints and job orders as needed for area of supervision.
- Installs and directs installation of assemblies in building or work-site.
- Interprets company policies to workers and enforces safety regulations.
- Establishes and adjusts work sequences to meet construction schedules, using knowledge of capacities of equipment and assigned personnel.
- Studies, schedules, and estimates worker-hour requirements for completion of job.
- Analyzes and resolves work problems.
- Maintains time records and coordinates schedules.
- May, upon project managers authorization, make cost estimates for contracts.

Requirements

- Work within precise limits and standards of accuracy
- Perform a variety of duties which may change often... and rate information using measurable standards... plan, lay-out, fabricate, assemble, install and repair piping parts, products and equipment, utilizing knowledge of working characteristics of metallic and non-metallic materials, machining and lay-out techniques, using hand-tools, power tools, machines, and equipment.
- Read and interpret blueprints, sketches, or products specifications to determine sequence and methods of fabrication, assembling, and installing piping



products... Select size and type of pipe such as galvanized iron, copper, steel, aluminum, etc., or non-metallic materials such as plastic and fiberglass according to product specifications.

Lay-out and mark dimensions and reference lines on materials, using scribes, dividers, squares, and rulers, applying knowledge of shop mathematics and lay-out techniques to develop and trace patterns to product or parts... or use of templates.

Sets up and operates fabricating machines such as welders, brazing tools, presses, forming rolls, etc., to cut bend, block and form or straighten materials. Shapes materials over anvil, block or other form, using hand tools. Trims, files, grinds, buffs, and smooths surfaces, using hand tools and portable power tools. Welds, solders, bolts, rivets, screws, clips, caulks, and bonds component parts to assemble products, using hand tools, power tools, and equipment.

Installs assemblies in supportive framework according to blueprints, using hand tools, power tools, and lifting and handling devices. Inspects assemblies and installation for conformance to specifications, using measuring instruments required.

Levels

- **Journeyman Level 1**
 - 2+ years' experience in this or related field
 - Perform all functions required by apprentice
 - Basic blueprint reading skills including identifying type of walls, dimensions, duct layout, equipment types and location.
 - Able to understand basic items within Pipe Fitters handbook
 - Able to set up pipe system for air/water test to identify and fix leaks as required
 - Able to cut and thread steel pipe
 - Able to silver braze copper for refrigerant applications
 - Able to cut and solder copper pipe for water/air applications
 - Able to cut and install PVC piping systems
 - Able to identify and size condensate drain pipe correctly
 - Able to install specialty items such as vent sensors, inverted traps, filters, as needed
 - Supervise and train apprentice in order to obtain journeyman skills
 - Able to draw up pipe fittings per Mechworks standard material requisition sheets
 - Accurately plan and track time with proper job and task codes



- **Journeyman Level 2**

- 5+ years' experience in this or related field
- Performs all functions of a Journeyman Level 1
- Certified welding certificate
- Safety enforcer for job with at least 10 hour OSHA Certification
- Able to supervise up to six pipe fitting journeymen or apprentices
- Able to plan activities and material for manpower assigned to you in an efficient manner
- Must have knowledge of hydronic systems utilizing pumps, boilers, chillers, and accessories
- Able to layout basic piping systems such as fuel gas or refrigerant systems
- Must have working knowledge of fuel gas regulators and their sizing, ratings and purpose
- Able to coordinate the schedule and project needs with other trades
- Able to identify site specific changes and report them to Supervisor or Project Manager
- Able to read and understand all project documents including drawings, specifications, submittals, etc.
- Able to generate "requests for information" as required
- Able to communicate with inspectors and project superintendents professionally

- **Journeyman Level 3**

- 8+ years' experience in this or related field
- Perform all functions required by Journeyman Level 2
- Safety enforcer for job with 30 hour OSHA Certification
- Certified operator for forklifts, lifts and other required equipment
- Accountable for all field management aspects of each project assigned to you
- Have enough working knowledge of Mechworks and other trades to be able to competently manage and coordinate production
- Outline and plan two weeks in advance and communicate effectively your goals to project manager, supervisors, or construction manager
- Able to supervise up to eight pipe fitting journeymen or apprentices at more than one site
- Understand job cost reports, cost to date, and assist management with cost to complete



Physical Demands

Must be able to: Stand or walk for long periods of time during a regular work day; use arms and hands to reach for, handle and manipulate objects; lift and carry materials weighing 50 to 100 pounds; climb up and down ladders, scaffolds and other climbing devices; carry tools and equipment; work while in stooped, kneeling, crouched, and crawling positions; be able to see naturally or with correction, to safely perform designated tasks.

Environmental and Weather Conditions

Must be able to: Perform assigned tasks under all types of environmental and weather conditions including severe cold, extreme heat, wet or dry weather and high winds.

Environmental conditions may include areas where toxic or caustics chemicals or fumes are in use or being stored.

Noise intensity level of 4; Close proximity to moving mechanical parts; Working in high, exposed levels as well as in close, cramped quarters.

May be required to operate or work around powder-actuated hand tools such as ram-sets, Hilti-guns, etc.,

Employees will not be subjected to hazardous conditions without the proper safety equipment and training relative to the work being done.

NOTE: The above description covers the principle duties and responsibilities of the job. The description shall not however, be construed as a complete listing of all miscellaneous, incidental or similar duties which may be required from day-to-day