

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
POSITION DESCRIPTION

POSITION TITLE: Pipefitter/Plumber - Welder

JOB CODE : 031803, 036803

DATE PREPARED : July 21, 1992

Revised: December 13, 1993

SUMMARY STATEMENT

The incumbent lays out, fabricates, assembles, installs, and maintains piping, piping systems, and equipment for water systems, lubricating, sprinkling, and industrial processing systems on the basis of knowledge of system operation and study of building plans or working drawings.

DIMENSIONS

The incumbent reports to a foreman, general foreman, or salaried supervisor and has no supervisory responsibility.

NATURE AND SCOPE

1. Assembles, installs, and repairs a variety of metal and nonmetal pipe and pipe fittings including those made of brass, copper, glass, and plastic;
2. Performs work in accordance with drawings, sketches, specifications, codes, and standards;
3. Selects type/size of pipe and related materials according to job specifications; plans sequence of installation to avoid obstructions and activities of other craft workers;
4. Cuts pipe using hacksaw, pipe cutters, hammer and chisel, cutting torch, and pipe cutting machine; threads pipe using threading machine; bends pipe by hand or with pipe bending machine;
5. Joins piping by means of welded, threaded, caulked, wiped, soldered, brazed, fused, or cemented joints;
6. Secures pipe to structure with clamps, brackets, and hangers using hand tools;
7. Tests piping system for leaks by increasing pressure in pipes and observing gauges attached to pipes for indications of leaks; lays out reference points for installation of structural and functional components using tape, plumb bob, levels, squares, and individual lasers; lifts/aligns components into position using hoists; bolts, clamps, and tack-welds parts to secure in position for welding;
8. May weld holding fixtures to structural steel members; sets up equipment and welds parts using arc, gas-shield arc, submerged arc, or gas welding equipment; may cut asbestos-containing pipe and insulation requiring employee to wear an air purifying respirator;
9. Adheres to all Company EEO, affirmative action, environmental, health, safety, quality assurance, and security programs;
10. Performs related work as required.

ESSENTIAL JOB FUNCTIONS

Physical

1. Frequent-to-constant standing/walking a distance of up to one mile per shift, depending on job assignment while performing job duties;

<i>Constantly = Over 2/3 of time</i>
<i>Frequently = 1/3 - 2/3 of time</i>
<i>Occasionally = Less than 1/3 of time</i>

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2. Occasional sitting while at work bench and performing other job duties;
3. Frequent lifting/carrying 30 to 50 pounds of work tools/materials, welding equipment, etc., necessary to perform job duties and carrying a distance of up to 150 feet;
4. Frequent pushing/pulling using one or both hands/arms exerting 25 to 50 pounds of force while working on piping systems, wrenching, moving equipment, and performing shop work;
5. Occasional climbing ladders while performing job duties;
6. Constant bending/twisting at waist/knees/neck while working in awkward positions while performing repairs/installations; may be required to work in confined spaces;
7. Frequent kneeling/crouching/crawling while working in attics and underneath structures inspecting/installing/repairing piping systems;
8. Constant use of both hands/arms while reaching/handling/grasping/fingering/gripping while performing inspections/installations/repairs; may be highly repetitive hand work when fabricating/installing piping systems;
9. Constant use of sight abilities in visual acuity of near- and mid-range, depth perception, and hand/eye coordination;
10. Constant use of speech/hearing abilities in communicating and maintaining safe working environment;
11. Frequent use of sense of smell when working around welding equipment and piping systems to detect gas leaks/odors and chemical spills/leaks.

Mental

1. Must possess good verbal communication skills to perform routine exchanges of information necessary to safe/effective job performance;
2. Basic written communication skills are necessary in order to fill out forms accurately;
3. Must be able to read/write/speak English to understand technical information and Material Safety Data Sheet guidelines and manuals;
4. Must possess basic mathematical skills;
5. Constant attention to detail, alertness, and concentration required to perform job duties effectively/safely while working with precise specifications;
6. Must be a capable problem-solver and able to work independently;
7. Must be able to deal with irate customers/users when piping systems fail and to work under emergency situations with frequent interruptions and time constraints.

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WORKING CONDITIONS AND EQUIPMENT USED

Work is performed in shop environment 20 percent of the time and in the field 80 percent of the time completely exposed to Nevada weather conditions.

Tools & Equipment Used: Hand/power tools, jackhammer, cranes, forklift, welding equipment, and other equipment as needed. Safety equipment includes anti-contamination suits, coveralls, gloves, hard hat, safety shoes, safety glasses, and respirator.

REQUIRED TRAINING AND WORK EXPERIENCE

Four years of experience as a pipe fitter/plumber-welder or completion of a certified apprenticeship program. Must be currently qualified and be able to demonstrate continued proficiency in accordance with REECO's General Welding Standard WQ-1, as described in the REECO Welding Manual, Volume II.

OTHER SPECIAL QUALIFICATIONS

Brazing certification required. Must be able to pass appropriate Environmental Protection Agency certification. Must be able to obtain "Q" clearance. Valid driver's license required.