

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
POSITION DESCRIPTION

POSITION TITLE: Plumber/Refrigeration Mechanic

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 and piping systems and equipment for heating/cooling systems 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 refrigeration mechanic foreman, general foreman, or salaried supervisor and has no supervisory responsibility.

NATURE AND SCOPE

1. Installs/maintains refrigeration and air conditioning systems including compressors, pumps, meters, and pneumatic and hydraulic controls and piping;
2. Forges components to assemble structural forms such as machining frames, tanks, pressure vessels, and piping according to blueprints and knowledge of welding and metallurgy;
3. Tests piping system for leaks by increasing pressure in pipes and observing gauges attached to pipes for indications of leaks;
4. Lays out reference points for installation of structural and functional components using tape, plumb bob, levels, squares, and individual lasers;
5. Lifts/aligns components into position using hoists; bolts, clamps, and tack-welds parts to secure in position for welding;
6. 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;
7. May cut asbestos containing pipe and insulation, requiring employee to wear an air purifying respirator;
8. Adheres to all Company EEO, affirmative action, environmental, health, safety, quality assurance, and security programs;
9. Performs related work as required.

ESSENTIAL JOB FUNCTIONS

Physical

1. Frequent standing/walking on all types of terrain while performing job duties;
2. Occasional sitting while at workbench using test equipment to work on small chillers;
3. Frequent lifting/carrying 30 to 50 pounds of work tools/welding equipment for a distance of up to 20 to 150 feet;

<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>

Plumber/Refrigeration Mechanic

4. Frequent pushing/pulling exerting 35 to 75 pounds of force performing heavy wrenching, setting A/C units in windows, etc.;
5. Frequently climbs ladders to roof areas carrying tools/equipment while working on air conditioning systems and heating units;
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 reaching/handling/grasping/fingering/gripping while performing inspections/installations/repairs; may be highly repetitive work while fabricating/installing systems;
9. Constant use of sight abilities in visual acuity of near- and mid-range, depth/color 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 for safe/effective job performance;
2. Basic written communication skills are necessary in order to fill out forms accurately;
3. Basic reading skills are required to understand technical information and Material Safety Data Sheet guidelines;
4. Must possess basic mathematical skills; basic algebra and trigonometry required in order to read blueprints and schematics and to figure BTUs and heat transfers;
5. Constant attention to detail required; for example, to prevent serious consequence of financial loss of computer equipment due to lack of air conditioning;
6. Must be an excellent problem-solver and able to work independently;
7. Must be able to deal with irate customers/users when heating/air conditioning systems fail and to work under emergency situations with frequent interruptions and time constraints.

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.

Plumber/Refrigeration Mechanic

REQUIRED TRAINING AND WORK EXPERIENCE

Four years of experience as a refrigeration mechanic or completion of a certified apprenticeship program. When welding is required, 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. May be required to be fitted for respirator. Must be able to obtain "Q" clearance. Valid driver's license required.