

PLANT MECHANIC/WELDER

Definition:

Under supervision, to make mechanical and electrical repairs to treatment plants, pumping plants, pressure regulating stations, other power driven equipment, and to do related work.

Distinguishing Characteristics:

This is a journey level skilled maintenance position that has significant latitude in technical decisions about how work is to be accomplished. The duties require significant bending, squatting, standing, walking, reaching and lifting; and working in awkward positions on an occasional basis. The position also requires work outside under inclement weather. This position works in the Water Treatment Plant and is exposed to chemicals used in the plant.

Examples of Duties:

- inspects, diagnoses, and locates mechanical and electrical difficulties on Agency equipment in treatment plants, pumping plants and pressure regulating stations;
- determines the extent of necessary repairs;
- makes estimates of time and material needed to make repairs;
- performs welding (both arc and gas);
- repairs and adjust treatment plant and pumping station equipment;
- repairs and adjusts engines, generators, electric motors and controls, pumps and gear boxes;
- tunes up engines;
- replaces or repairs faulty parts, and maintains special safety equipment;
- fabricates all types of metal work;
- replaces and repairs valves, welds pipe;
- keeps record of work, time and materials;
- operates vehicles safely in the course of work;
- and does basic electrical work.

Qualifications:

Knowledge of:

- tools, equipment and procedures used in the overhaul, repair and adjustment of equipment, pumps, electrical panels and motors and related power driven equipment;
- mathematics and hydraulics;
- basic water treatment and distribution principles and controls;

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- basic electrical wiring; safety practices and procedures used in electrical, mechanical, pump and plumbing maintenance.

Ability to:

- inspect pumps, electric motors and related power driven equipment to locate difficulties and estimate the cost and time of repairs;
- performs work on Agency-owned mechanical equipment;
- use a variety of tools and equipment with skill and safety;
- weld safely with arc and gas;
- maintain shop maintenance and safety records;
- understand and carry out oral and written directions;
- read and understand blueprints;
- do basic electrical maintenance and installation work.

Education/Experience:

Sufficient training, education and experience to demonstrate the knowledge, skills and abilities listed above. These would normally be acquired by completion of high school or the equivalent; and two years experience in the maintenance or operation of water treatment plant equipment, pumping station, or other related power driven equipment. Completion of a recognized apprenticeship program in mechanical or electrical maintenance, or similar training may be counted towards one year of the experience.

License/Certificates:

Must possess and maintain a valid California driver's license with an acceptable driving record. A Grade 2 Water Treatment certification and a Grade 1 Distribution certification required, or must obtain certification within 18 months of hiring.