



Electrician

Class specifications are intended to present a descriptive list of duties performed by employees in the class. Specifications are not intended to reflect all duties performed within the job.

SUMMARY DESCRIPTION

Under general supervision; to perform skilled electrical maintenance, testing, and repair of power generation and electrical systems throughout the Tri-Dam Project and related facilities.

REPORTS TO

Lead Technician

STATUS

Fulltime, non-exempt

DISTINGUISHING CHARACTERISTICS

This is a journey level classification. This class is a specialized class for incumbents assigned to perform skilled electrical installation and maintenance work, including testing of protective devices and associated equipment common to Hydro-Electrical facilities. The incumbent in this class also assists the PACCTS technicians. An incumbent in this classification may be called after hours for emergency repair work.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Responsible for meticulously measuring, cutting, bending, and threading conduit (such as EMT, PVC, and rigid metal) to code, and securing safely into walls, ceilings, or underground trenches to ensure efficient and compliant systems.
- Pull and thread heavy wires and delicate network cables through conduits, ductwork, and cable trays.
- Perform skilled electrical maintenance and repair of equipment used in hydro-electric plants, dams, and related facilities i.e. 115KV, 13.8KV, 6.9KV, 480V, 240V, switchgear, GSU's, pumps, motors, starters and related control schemes.
- Perform maintenance and repair of water conveyance equipment i.e. Gate actuators, reversing starters, 4-20ma control and feedback circuits, solar arrays, regulators, level recording instruments etc.
- Test and repair various electrical circuits, breakers, controllers, meters, and transformers.
- Repair 4160V overhead lines and power poles.
- Assist the technical department with Protection, Automation, Control, Communications, Testing and Security.
- Order materials and supplies for electrical projects.
- Participate in the repair and maintenance of generators and related equipment.
- Maintain records and reports.
- Design modifications to existing circuitry and new systems.
- Read, modify and draft blueprints to reflect "as built" conditions.

- Manufacture parts list and collect quotes for various projects.
- Troubleshoot and repair basic refrigeration problems.
- Additional duties as assigned.

TYPICAL PHYSICAL REQUIREMENTS

Frequently stand and walk or crouch on narrow, slippery, and erratically moving surfaces; stoop, kneel, bend to pick up or move objects; physical ability to lift and carry objects weighing up to 50 pounds; normal manual dexterity and eye-hand coordination; corrected hearing and vision to normal range; verbal communication; use of tools, multi-meters, ammeters, resistance tester, carbon dioxide/monoxide testers, hand/power tools, for a variety of building trades; use of maintenance equipment such as manlifts, all terrain forklifts, cranes, bucket trucks, and snow removal equipment.

TYPICAL WORKING CONDITIONS

Work is performed both in shop and outdoor environments; exposure to varying temperatures; exposure to smoke, gases, dust, and chemicals; working around electrical current, moving machinery parts; limited contact with staff and the public.

DESIRABLE QUALIFICATIONS

Knowledge of:

- Methods, materials, tools, and equipment used in electrical work.
- Safe work practices and Federal and State safety regulations.
- Standard tools, methods, practices, and materials involved in high voltage work.
- Applicable provisions of NFPA 70E.

Ability to:

- Perform a wide variety of skilled electrical work.
- Perform the essential duties and responsibilities as stated above.
- Estimate time and material required for electrical jobs.
- Design, read, and interpret specifications, diagrams, schematics, and blueprints: lay out material from basic sketches.
- Skillfully use a variety of hand and power tools.
- Design modifications to electrical equipment.
- Prepare clear, concise, and accurate records of reports.
- Establish and maintain cooperative working relationships.
- Follow written and oral instructions.
- Perform basic computer tasks and effectively use Microsoft office
- Work under stress and in emergency situations.

EDUCATION, TRAINING AND EXPERIENCE

At least a high school diploma or general equivalency degree and the ability to communicate clearly, verbally, and in writing with American English is required.

Any combination of training and experience which would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Two (2) years of experience in performing skilled electrical work in an industrial or hydroelectric environment.

SPECIAL REQUIREMENTS

- Possession of an appropriate valid and current California Driver's license.
- Must reside within sixty (60) miles of the Strawberry office.
- This position is subject to emergency callouts. Mandatory overtime is required

ACCOMMODATIONS

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

**TRI-DAM PROJECT IS AN EQUAL OPPORTUNITY EMPLOYER
BACKGROUND AND DRUG TEST REQUIRED**