

## **ELECTRICAL TECHNICIAN**

### Definition:

Installs, tests and maintains various electrical equipment including protective relay metering, control and associated wiring equipment.

### Distinguishing Characteristics:

This journey-level class working in the Power System Division. Incumbents are expected to perform the full range of duties independently without direct supervision. This position works outdoors in all types of weather. The duties require regular bending, stooping, climbing, walking, lifting and carrying 50-60 pounds on a regular basis, manually adjusting equipment, distinguishing color coded wires, working with high voltage equipment safely and effectively.

### Examples of Duties:

- installs, filed tests, and maintains protective relay equipment, relay equipment, relay carriers, supervisory equipment, station apparatus, indicating instruments, remote and local control devices and associated wiring;
- maintains electrical equipment such as motors, contactors and other devices typical to hydroelectric facilities, keeps records of work performed and repairs made;
- coordinates activities with other maintenance tasks through the Maintenance Supervisor;
- reads, revises and corrects electrical schematics;
- may also assist the Communications Technician working on communications equipment;
- performs related duties as required.

### Qualifications:

#### Knowledge of:

- high voltage electrical equipment and properties;
- principles of hydroelectric generation and transmission of electricity;
- principles of safety in working with electricity and electrical equipment;
- equipment, metering and measuring devices, supervisory and control equipment and wiring associated with the generation and transmission of electricity in a hydroelectric facility;
- protective relays and relay carriers used in hydroelectric facilities;
- operation of hand and power tools specific to Electrical Technician duties.

## **ELECTRICAL TECHNICIAN**

### Ability to:

- install, test, adjust and maintain electrical equipment associated with hydroelectric facilities including protective relays and relay carriers, supervisory and control equipment;
- instrumentation and metering equipment and associated wiring;
- keep complete and accurate records;
- read, interpret and revise electrical drawings, diagrams and schematics;
- work cooperatively and effectively with others;
- work independently with little or no direct supervision;
- communicate effectively with co-workers;
- analyze equipment and system problems and develop appropriate solutions;
- follow oral and written instructions and directions.

### Education/Experience:

Sufficient education, training and experience to demonstrate the knowledge, skill and abilities listed above. These would normally be acquired by completion of high school and completion of an apprenticeship program as an electrical technician or an equivalent combination of education and experience.

### License/Certificates:

Must possess and maintain a valid California driver's license with an acceptable driving record.