JOB DESCRIPTION

Coachella Valley Water District

TITLE: Electrician IV

SECTION: Electrical

DEPARTMENT: Trades & Support

REPORTING RELATIONSHIP:

Reports to: Electrical Supervisor

Supervises the following positions: Not applicable

DEFINITION: Under direction performs a variety of the most complex electrical work in the installation, maintenance and repair of wiring, Work on air conditioning equipment, pumps, motors, and may do other mechanical related work as required. Provides training to Electrical Technicians I, II, and III in advanced electrical practices and some mechanical repair methods and procedures. This is the fourth level position in the Electrical series.

ESSENTIAL FUNCTIONS:

1. Includes the essential functions listed on the Electrical III level. (Obtain copy from Human Resources)

2. Studies system blueprints, specifications and performance data to determine configuration and purpose of system components such as motors, pumps, fans, switches, ducts or piping. Inspects system to verify system compliance with specifications and to detect malfunctions in system components.

3. Trains Electricians I, II, and III in advanced electrical and some mechanical repair methods and procedures.

4. Successfully handle a variety of complex electrical service calls with minimal call backs.

5. Be able to make sound electrical decisions that are safe, cost effective and code compliant.

6. Adheres to District safety policies and procedures, which include N.F.P.A. 70 E and confined space procedures.

MINIMUM QUALIFICATIONS:

License or Certificates: Valid California Operators license issued by the State Department of Motor Vehicles. Department of Motor Vehicles driving record may influence employment or classification.
MINIMUM QUALIFICATIONS (Cont.):

Experience: Minimum of two years as an Electrician III. Perform 100% of field evaluation criteria for an Electrician III, and 80% of the field evaluation criteria of a Technician IV.

OR

Any combination of training or experience which would likely provide the required knowledge and abilities would be qualifying. A typical way to gain the required knowledge and abilities would be to have a minimum 7 years of industrial motor control electrical experience and pass the Electric Shop level IV field assessment (Obtain copy from Human Resources).

Knowledge of:

- Hydraulic relationship between wells, booster stations, reservoirs, lift stations, and irrigation pumping facilities.
- Advanced electrical theory, practices, tools and equipment.
- Mechanical theory, practices, tools, and equipment.
- Principles and practices of reclamation plant, water production, and distribution equipment as maintained by the District.
- Principles and practices for the maintenance and repair of air conditioning electrical systems.
- Electrical codes and related ordinances and regulations.
- Principles and procedures for the installation, maintenance and repair of electrical motors and electrical equipment, such as in variable speed drives, gate controllers, transfer switches, etc.
- Principles of supervision and training.
- Safe working practices including confined space entry.
- Thorough knowledge of relay logic.

Abilities:

- Analyze, diagnose, troubleshoot, inspect, install, maintain, and repair a variety of electrical and mechanical equipment under minimal supervision.
- Effectively develop and plan out jobs using appropriate cost control and scheduling methods.
- Train level I, II and III electricians in electrical and mechanical theory, practices, troubleshooting techniques, and equipment usage.
- Maintain accurate logs, records, reports, and charts.
- Read and interpret maintenance procedures from manuals.
- Read and understand blueprints, diagrams, and schematics of electrical and mechanical equipment.
- Develop and install a fully functional multi ladder diagrams which may exceed twenty horizontal rungs.
- Work safely around energized electrical and mechanical equipment.
- Follow written and oral directions.
- Work cooperatively with others.
- Provide technical support and work direction to others.
- Communicate effectively with others.
- Use hand and power tools in a safe manner.
PHYSICAL REQUIREMENTS:

1. Drive District vehicle to job sites including over rough terrain. Uses a two-way radio for communication.

2. Works in extreme weather conditions including heat and rain. Will work in areas containing dust, fumes and exhaust. Also works in areas with high frequency noise and vibration.

3. Climbs ladders and works at heights up to 100 feet.

4. Will work nights, weekends, holidays, overtime, and stand-by when required.

5. Lift and carry objects in excess of 50 pounds.

See Human Resources for physical assessment form.