



MAINTENANCE TECHNICIAN VI-ELECTRICIAN

DEFINITION:

Under the supervision of the assigned supervisor, leads and performs journey level electrical maintenance and repairs on buildings, facilities and equipment throughout the District; develops and implements electrical projects; trains and provides work direction and guidance to assigned personnel.

DISTINGUISHING CHARACTERISTICS

The classification of Maintenance Technician VI-Electrician is distinguished from the lower classification of electrical maintenance positions primarily by the higher degree of journey-level skills. Incumbents serve as a senior technician and oversee special projects. Incumbents train and provide leadership and direction to assigned staff in the electrical trade involving the maintenance, repair and inspection of electrical equipment and electrical systems. This classification serves as a backup Head Foreman and orders materials and supplies. Incumbents have six years of journey-level experience in a specific trade and have completed an approved apprenticeship program in a specific trade.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

- Leads and participates in a variety of skilled electrical activities in the inspection, repair, installation, testing, servicing and maintenance of electrical systems.
- Assists in planning, estimating and scheduling of work.
- Inspects and ensures quality control of completed work.
- May assist the District inspectors in the oversight of school locations under construction; checks drawings and plans.
- Works with maintenance crews and conducts training on installed equipment.
- Prepares and submits reports.
- Schedules preventive maintenance of electrical equipment and related electrical systems.
- Performs a variety of skilled maintenance work as required.
- Trains and provides work direction and guidance to assigned personnel; assigns employee duties and reviews work for accuracy, completeness and compliance with established standards and procedures.
- Estimates materials and equipment needed for projects and assigns tasks.
- Installs, maintains and repairs full range of electrical equipment and systems common to school buildings including, but not limited to: lighting systems, distribution equipment, fans, switches, motors and controls.
- Installs, maintains and repairs electrically operated food service equipment.
- Troubleshoots and resolves electrical malfunctions; performs diagnostic tests on system components and replaces defective wires and parts, including switches, receptacles and fuses.
- Prepares material requisitions, provides general estimates of time and materials for electrical related work orders.
- Provides direct labor as may be required in the event of an emergency to protect personnel and property.
- Performs maintenance, monitoring and repair of photovoltaic solar panel systems and alternative energy systems.
- Installs, monitors and repairs automated electrical control systems.
- Operates a variety of specialized equipment related to assigned activities including various hand and power tools; maintains assigned tools and equipment in clean and operating condition; drives a vehicle to conduct work.
- Maintains work area in a clean, safe and orderly environment.
- Prepares and maintains records and reports related to assigned activities.

QUALIFICATIONS GUIDE

Knowledge of:

- Principles of training and supervision.
- Methods, materials and equipment used in the maintenance, repair and installation of electrical systems, distribution and emergency systems.
- The National Electric Code.
- Safety practices and procedures related to the electrical trade and use of equipment common to the electrical trade.
- Basic arithmetic calculations as related to the electricity.
- Solid state controls, craft skills and general building trades practices.
- Computer skills.
- Building codes related to the electrical trade.
- Operation and maintenance of tools and equipment used and the technical aspects of the electrical trade.
- Proper methods of storing equipment, materials and supplies.
- Appropriate safety precautions and procedures.
- Electrical blueprints.
- Interpersonal skills using tact, patience and courtesy.
- Oral and written communication skills.
- Record-keeping techniques.

Ability to:

- Lead and participate in a variety of skilled electrical activities in the repair, installation and maintenance of electrical systems and related equipment.
- Plan, layout work of a crew of journey level workers in electrical trade.
- Estimate costs of labor and materials for a work project from blueprints, sketches or diagrams.
- Determine priorities and make schedules for completion.
- Read and interpret blueprints.
- Understand, carry out and give oral and written instruction.
- Safely and proficiently use hand and power tools and equipment common to the electrical trade.
- Perform heavy manual labor.
- Work alternative schedule.
- Operate and maintain specialized machinery, equipment and tools utilized in the repair, installation and maintenance of electrical systems.
- Plan and lay out electrical work.
- Troubleshoot and diagnose electrical device, system and equipment malfunctions.
- Observe health and safety regulations and procedures.
- Communicate effectively both orally and in writing.
- Establish and maintain cooperative and effective working relationships with others.
- Meet schedules and time lines.
- Understand and follow oral and written instructions.
- Work independently with little direction.
- Maintain various records related to work performed.

EDUCATION/EXPERIENCE:

Any combination equivalent to: graduation from high school supplemented by completion of an approved apprenticeship program in the electrical trade area and six years increasingly responsible journey-level experience in the installation, maintenance and repair of electrical systems and equipment.

LICENSES AND OTHER REQUIREMENTS:

- Valid California Class C Driver's license.

PHYSICAL DEMANDS:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Dexterity of hands and fingers to operate a variety of equipment.

- **Bending at the waist, kneeling, stooping or crouching.**
- **Walking, standing or sitting for extended periods of time.**
- **Reaching overhead, above the shoulders and horizontally.**
- **Hearing and speaking to exchange information.**
- **Climbing ladders and working from heights.**
- **Seeing to perform assigned general maintenance duties.**
- **Regularly lift and/or move up to 50 pounds; lifting, carrying, pushing or pulling heavy objects up 100 pounds with assistance.**

WORK ENVIRONMENT:

Indoor and outdoor work environment. Regular exposure to fumes, dust, dirt, oil/grease. Driving a vehicle to conduct work. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. The noise level in the work environment is usually loud. Hazards include:

- **Working in confined spaces.**
- **Working around and with machinery having moving parts.**
- **Exposure to high voltage and electrical shock.**
- **Working at heights.**

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