

ELK GROVE UNIFIED SCHOOL DISTRICT

CLASS TITLE: MAINTENANCE ELECTRICIAN

BASIC FUNCTION:

Under the direction of the Area Supervisor-Maintenance, perform journey-level electrical work in the repair, alteration, construction, installation and maintenance of electrical distribution and equipment.

ESSENTIAL FUNCTIONS:

Install, repair and service high voltage electrical distribution systems and related equipment.

Inspect, repair, install, test, service, and maintain electrical systems, including conduit systems, light and power circuits, motor appliances, generators, control equipment, switches, switchboards and fans; assure balanced load and clean electrical flow.

Install interior and exterior wiring and conduit for equipment and appliances; install, repair and maintain ceiling lighting, ballasts and lamps; wire and repair electrical switching devices, circuit breakers, and load centers. Test computerized lighting and dimming systems.

Wire new construction, remodels and altered structures according to established safety standards.

Inspect and repair main distribution breakers, transformers, and high voltage systems.

Replace circuit breakers and panels.

Assemble, install and maintain lighting fixtures, switches and field lighting systems; provide power to electronic systems, such as clocks, buzzers, bells and alarms.

Plan, organize and lay out assigned electrical tasks; prepare specifications for electrical projects; make recommendations for new systems as designed; review and comment on building plans and specifications for modernization and new building projects.

Order, requisition and maintain an adequate inventory of supplies, parts and materials; respond to emergency situations.

Drive a District vehicle to and from work sites.

Operate a man lift, scissor lift and man lift truck.

Respond to 24-hour emergency call as assigned.

Assist other maintenance staff with projects as assigned.

Install supplemental power supply to temporary and additional facilities and equipment as assigned.

Perform related duties as assigned.

DEMONSTRATED KNOWLEDGE AND ABILITIES:

KNOWLEDGE OF:

Methods, safety practices, materials, tools and equipment used in the electrical trade.

National, State, County and City electrical codes and regulations applicable to school facility maintenance, repair, and construction.

Electrical and electronic theory.

Design, construction, installation and maintenance of electrical systems.

Technical aspects in field of specialty.

Safe working methods and procedures.

Proper lifting techniques.

High voltage installation, tools and safety.

Hazmat and safety regulations and practices.

Interpersonal skills using tact, patience and courtesy.

ABILITY TO:

Skillfully use tools and equipment in performing electrical installation, maintenance and repair activities.

Plan, organize and lay out electrical work.

Accurately estimate labor and material costs.

Work from diagrams, blueprints, shop drawings, sketches, shop plans, and specifications.

Maintain simple records and prepare complete and concise reports.

Understand and follow oral and written directions.

Establish and maintain cooperative and effective working relationships with others.

Perform complex or varied tasks.

Use a breathing respirator as needed.

Speak, read and write English at a level required for satisfactory job performance.

Maintain consistent, punctual and regular attendance.

Bend at the waist, kneel or crouch.

Climb ladders and work from heights.

Move hands and fingers to operate specialized hand and power tools.

Reach overhead, above the shoulders and horizontally.

Stand and walk for extended periods of time.

Use proper lifting methods.

EDUCATION AND EXPERIENCE REQUIRED:

Any combination equivalent to: graduation from high school supplemented by completion of an approved electrician apprenticeship program and five years of journey-level electrical experience.

LICENSES AND OTHER REQUIREMENTS:

Valid California Class C driver's license.

Incumbents must obtain certification to wear a respirator within probationary period.

Floor-lift 90 pounds and arm-lift 90 pounds.

WORKING CONDITIONS:

ENVIRONMENT:

Indoor and outdoor work environment.

Driving a vehicle to conduct work.

HAZARDS:

Exposure to electrical power supply and high voltage.

Working in a cramped or restrictive work changer.

Working at heights up to 35 feet.