

SOUTHWESTERN COMMUNITY COLLEGE DISTRICT

CLASS TITLE: ELECTRICIAN

BASIC FUNCTION:

Under the direction of the Maintenance Supervisor, perform skilled maintenance electrical work in the installation, maintenance and repair of electrical systems and equipment; assist in performing other skilled maintenance duties as assigned.

REPRESENTATIVE DUTIES:

Inspect, repair, install, service and maintain electrical systems including conduit and duct systems, lighting and power circuits, transformers, generators, control equipment, switchers, switch boards, fire alarms, fans, fixtures, bell and buzzer systems, clocks and related electrical devices. *E*

Observe and comply with federal, state and local electrical codes. *E*

Operate a variety of tools and power equipment including, jackhammer, saws, voltage tester, ohm meter, multimeter and other maintenance tools and equipment. *E*

Work from sketches, plans, drawings, blueprints and specifications. *E*

Install or replace necessary interior and exterior wiring for equipment, appliances and lighting. *E*

Install and perform repair of electrical repair systems for lighting, heating, ventilation and air conditioning; replace fuses. *E*

Maintain and repair control circuits; clean and repair electrical fire alarm system as assigned. *E*

Prepare cost estimates for repair and order materials needed; order materials and provide for a properly supplied maintenance vehicle; maintain inventory control over material received and used. *E*

Diagnose and resolve difficult electrical problems; call electrical company as necessary; observe safety of others and recommend precautionary action if necessary while repairs are in progress. *E*

Inspect College buildings annually for preventive maintenance.

Prepare progress reports as directed.

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Ewing & Company

Perform occasional welding, soldering and brazing operations incidental to electrical duties.

Assist in performing other skilled maintenance duties as assigned; assist in air conditioning troubleshooting and repair as assigned.

Perform related duties as assigned.

KNOWLEDGE AND ABILITIES:

KNOWLEDGE OF:

Technical aspects of field of specialty.

Basic electrical theory and calculation of formulas.

Electrical codes and their proper implementation.

Health and safety regulations.

Record keeping techniques.

Materials, methods, tools and equipment used in electrical work.

ABILITY TO:

Make arithmetic calculations related to specialty quickly and accurately.

Work from blueprints, shop drawings and sketches.

Use a variety of tools and machines utilized in the basic trade including voltmeter, ohm meter and hydraulic truck lifts.

Understand and give oral and written directions.

Work independently with little direction.

Analyze situations accurately and adopt an effective course of action.

Maintain records and prepare reports.

Read, interpret and follow rules, regulations, policies and procedures.

Operate a light truck.

Perform other skilled maintenance work as assigned.

Prioritize and schedule work.

EDUCATION AND EXPERIENCE:

Any combination equivalent to: four years of training or experience which demonstrates journey-level skill in the assigned trade.

LICENSES AND OTHER REQUIREMENTS:

Valid California driver's license and a safe driving record.

WORKING CONDITIONS:

ENVIRONMENT:

Indoor and outdoor work environment.
Driving a vehicle to conduct work.

PHYSICAL ABILITIES:

Dexterity of hands and fingers to operate specialized hand and power tools.
Reaching overhead, above the shoulders and horizontally.
Sitting or standing for extended periods of time.
Bending at the waist.
Lifting moderately heavy objects.
Climbing ladders.

HAZARDS:

Electrical power supply and high voltage.
Working in a cramped or restrictive work chamber.
Working at heights.