CLASS TITLE: ELECTRICIAN

BASIC FUNCTION:

Under the direction of a Director of Maintenance and Operations or assigned supervisor, perform skilled electrical work in the installation, maintenance and repair of electrical systems and equipment.

REPRESENTATIVE DUTIES:

Inspect, repair, install, service and maintain electrical systems including conduit and duct systems, lighting and power circuits, transformers, generators, control equipment, switchers, switchboards, fans, fixtures, bell and buzzer systems, clocks and the like. E

Install or replace necessary interior and exterior wiring for equipment, appliances and lighting; perform minor repairs to related electronic equipment. E

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

Prepare cost estimates for repair and order materials needed; assure appropriate stock levels are maintained according to established procedures. E

Perform occasional welding and soldering operations incidental to electrical duties. E

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

Operate a variety of tools and power equipment including saws, drills, voltage testers, ohmmeter, multimeter and other maintenance tools and equipment; drive a vehicle to conduct work. E

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

Diagnose and resolve electrical problems; test, troubleshoot and repair motors and related controls, stage lighting, AC and DC emergency lighting equipment and related gears and equipment. E

Observe safety of others and recommend and observe precautionary action if necessary while repairs are in progress. E

Maintain records including work completed and materials used. E

Receive and store supplies; contact vendors when needed. E

Assist in performing skilled maintenance duties as assigned.

Revised November 2013 (Licenses and Other Requirements only)
Established July 2003
ELECTRICIAN (continued)

Provide work direction to student workers and others 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:

Perform skilled electrical work in the installation, maintenance and repair of electrical systems and equipment
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, ohmmeter and multimeter
Understand and follow oral and written directions
Analyze situations accurately and adopt an effective course of action
Maintain records
Communicate effectively both orally and in writing
Train and provide work direction to others
Safely operate a maintenance vehicle
Test, troubleshoot and repair motors and related controls
Work independently with little direction

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:

Certified by the State of California as a General Electrician
Valid California driver's license

WORKING CONDITIONS:

ENVIRONMENT:
Indoor and outdoor environment
ELECTRICIAN (continued)

Driving a vehicle to conduct work
Adverse weather conditions, dusts, and fumes

PHYSICAL ABILITIES:
Lifting heavy objects
Dexterity of hands and fingers to operate specialized electronic testing equipment and hand and power tools
Seeing to observe work and distinguish colors
Pulling cables and wires
Reaching overhead, above the shoulders and horizontally
Bending at the waist
Kneeling or crouching

HAZARDS:

Exposure to electrical power supply and high voltage