Electrician

FLSA Status: Covered
Bargaining Unit: District Council of Trade Unions (DCTU)

General Summary

Positions in this broad class perform a variety of skilled electrical works as a licensed journeyman electrician.

Electrician - 30000116

Distinguishing Characteristics

The journey level of this class typically performs all class duties. It is distinguished from the Instrument and Electronics (and related) Technician classes by the performance of electrical work requiring the journeyman electrician license.

Typical Duties/Examples of Work

1. Installs, maintains, troubleshoots, and repairs a variety of electrical and instrumentation equipment, and electrical systems, sub-systems, circuits, and controls; interprets and works from plans and/or develops sketches or designs for work, as appropriate.

2. Responds to failures, disasters and emergencies involving electrical systems and equipment; performs routine and preventative maintenance.

3. Performs a variety of electrical construction and structural installation; operates a variety of hand, power and hydraulic tools to perform work, including aerial and crane trucks.

4. Ensures that repairs and installations are safe and operate properly; evaluates safety and operability of systems; reviews the work of contractors to ensure compliance with specifications and standards.

5. Performs a variety of diagnostic and analytical tests, including those involving programmable logic controls, infra-red, ultra-sonic; researches information as necessary to perform duties and maintain currency.

6. Maintains records, supplies and equipment; maintains and stocks service vehicles as assigned; determines materials needs; carries out all required safety procedures.

7. Plans and organizes assigned job; estimates time, materials and equipment; orders and purchases materials; coordinates job activities with other crafts and trades

personnel; reviews plans and specifications, and confers with engineers, design professionals and inspectors on suggested changes and modifications.

8. May lead crew of trade helpers.

9. Responds to calls to work during emergencies.

10. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: tools, materials, processes and techniques of the electrical field and electrical construction; troubleshooting techniques; electrical systems, equipment, controls, laws, codes and regulations

Ability to: learn and use safe working practices; maintain records; perform layout and sketch designs for electrical installations and repairs; communicate effectively; work effectively with co-workers in a diverse workforce, and respond appropriately to question/concerns from other employees and the public; work constructively in a team

Skill in: performing electrical repair, troubleshooting, maintenance, modification and installation; electrical construction; operation of specialized equipment

Special Requirements

Valid state driver's license; some positions may require a Commercial Driver's License and other additional endorsements, certifications or licenses; most positions require a general journeyman electrician's license, however some positions may only require a limited journeyman manufacturing plant electrician license.

Classification History:
Adopted: 2-03-99:
Class created as a result of DCTU Classification and Compensation Study 1998-99. This class is composed of the following classes:
1453 Electrician Revised 04-17-84, 1990
June 2009 - Change Job Class number from 1453 to 30000116, due to system change.

Electrician, Lead - 30000117

Distinguishing Characteristics

The lead level of this class typically performs all class duties and in addition serves as a lead over other Electricians. It is distinguished from the Electrician

class by the lead assignment. Note: This is a premium pay class for assignment of lead duties. Employees do not accrue seniority or obtain status in this class. Employee is assigned from a base class.

Typical Duties/Examples of Work

1. Plans, schedules and coordinates work. Determines resource needs for work group or special project; Assigns team members to perform specific tasks, provides guidance as to expected results, may suggest techniques to be utilized, and monitors project quality and insures timely completion

2. Reviews the work of and provides training and guidance to assigned staff.

3. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: effective principles and practices of leadership

Ability to: schedule and assign the work of others

Skill in: demonstrating techniques to others; providing training to others; providing lead direction to staff, including assigning and reviewing work

Special Requirements

Same as Electrician

Classification History:
Adopted: 2-03-99:
Class created as a result of DCTU Classification and Compensation Study 1998-99. This class is composed of the following classes:
1454 Lead Electrician (No Class Spec Available)
June 2009 - Change Job Class number from 1454 to 30000117, due to system change.

Senior Electrician - 30000118

Distinguishing Characteristics

The senior level of this class typically performs all class duties and in addition has a supervising electrician license. It is distinguished from the Supervising Electrician and the Lead Electrician in that positions in this classification typically do not lead the work of other electricians. It is distinguished from the Electrician class by the supervising electrician license and duties

Typical Duties/Examples of Work

1. Signs for and secures permits for electrical installations and repairs.
2. Inspects work of crew and contractors; coordinates work with other crafts.
3. Designs electrical plans and schematics; advises on electrical plans for projects designed by others; administers contracts for electrical work.
4. May lead crew of trade helpers.
5. Responds to calls to work during emergencies.
6. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: electrical design and permitting

Ability to: inspect, review and coordinate electrical work; administer contracts for electrical work

Skill in: performing layout and sketching designs for electrical installations and repairs; evaluating electrical designs for suitability to purpose and conformance to laws, regulations and codes

Special Requirements

Same as Electrician, plus either a Limited Supervising Electrician or a General Supervising Electrician's license

Classification History:
Adopted: 12-22-04
June 2009 - Change Job Class number from 1456 to 30000118, due to system change.

Electrician, Supervising - 30000119

Distinguishing Characteristics

The supervising level of this class typically performs all class duties, serves as a lead over other electricians, and in addition is licensed as a supervising electrician

and performs duties authorized by such license. It is distinguished from the Lead Electrician class by the supervising electrician license and duties.

Typical Duties/Examples of Work

1. Signs for and secures permits for electrical installations and repairs.

2. Inspects work of crew and contractors; coordinates work with other crafts.

3. Designs electrical plans and schematics; advises on electrical plans for projects designed by others; administers contracts for electrical work.

4. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: electrical design and permitting

Ability to: inspect, review and coordinate electrical work; administer contracts for electrical work

Skill in: performing layout and sketching designs for electrical installations and repairs; evaluating electrical designs for suitability to purpose and conformance to laws, regulations and codes

Special Requirements

Same as Electrician, plus supervising electrician's license

Classification History:
Adopted: 2-03-99:
Class created as a result of DCTU Classification and Compensation Study 1998-99. This class is composed of the following classes:
1457 Supervising electrician Adopted 12-17-85
Revised: 03-20-08 Changed FLSA designation from exempt to covered
June 2009 - Change Job Class number from 1457 to 30000119, due to system change.

Working Conditions

Work in this class is typically performed in a shop or field environment. Incumbent is typically required to lift up to 100 pounds; to work outdoors in all weather conditions; to work at heights or in confined spaces; to be exposed to hazardous materials and conditions, including electrical currents; to operate power tools and equipment; to be called back to work during emergencies; to work in and around traffic.