

CLASS TITLE: HIGHWAY MAINTENANCE TRAFFIC ELECTRICIAN

Class Code: 02234700

Pay Grade: 27A

EO Code: C

CLASS DEFINITION

GENERAL STATEMENT OF DUTIES: To participate as a licensed professional in maintaining electrical, lighting and electronic signaling installations in conjunction with a statewide highway traffic maintenance program according to standard plans and maintenance specifications; to maintain such electrical installations in order to ensure conformance with the requirements of the National Electric Code and the National Electric Safety Code; and to do related work as required.

SUPERVISION RECEIVED: Works under the general supervision of a superior with some latitude for the use of independent judgement; work is verified by review of reports and field inspections.

SUPERVISION EXERCISED: May supervise the work of subordinates who are assigned to assist.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To participate as a licensed professional in maintaining electrical, lighting and electronic signaling installations in conjunction with a statewide highway traffic maintenance program according to standard plans and maintenance specifications; and to maintain such electrical installations in order to ensure conformance with the requirements of the National Electric Code and the National Electric Safety Code.

To maintain electrical installations in order to ensure that the requirements of the National Electric Code and the National Electric Safety Code are being followed.

To maintain the installation of street lighting poles and fixtures to insure their proper wiring and their proper grounding and fusing.

To maintain transformer vaults and determine wire sizes, types of insulation, voltage capacity, breaking capacity of circuit breakers, and the interrupting capacity of these breakers.

To maintain conduits and ducts for size, and when installed underground, for the proper angle of inclination.

To maintain traffic lights and their controllers according to specifications, and ensure that it has been properly installed, wired within the proper types and sizes of conductors, and that the controllers are gas sealed from any adjacent manholes.

To collect data from test runs on various electrical equipment, using video detection, radio, timing data bases, varied types of metering equipment, ammeters, voltmeters, watt meters, and illuminometers.

To notify the local Area or Facility Supervisor in charge of any specific electrical repair projects occurring in their locale when the situation arise, including equipment malfunctioning or failure.

To prepare reports on work in progress and final acceptance of installation constructed by contractors, and other maintenance personnel.

To maintain traffic controller data using current telecommunications and internet technology.

To participate in a comprehensive asset management program, maintaining electrical systems

in district facilities, ADA pedestrian crossings, bridge navigation lightening systems, video detection security systems and other associated electrical equipment.

To be available on a rotating basis, to be able to respond to emergency repair call-in situations.

To perform the functions of this classification in a variety of environmental and weather conditions.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough knowledge of the National Electric Code and the National Electric Safety Code; a thorough knowledge of the principles, practices, techniques, equipment and materials used in the current electrician trade; a working knowledge of electronics and telecommunications; the ability to read and interpret complex electrical wiring plans and specifications; the ability to prepare reports concerning defects in electrical installations; a working knowledge of computer technology and internet communications; a working knowledge of the operation of computer equipment and peripherals and the ability to operate and make minor repairs to such equipment; the ability to maintain time, materials and work project records and to prepare written reports; a working proficiency in a Windows environment, and a proficiency in current maintenance management software programs; the ability to establish and maintain effective working relationships with associates, superiors and electrical contractors; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from a senior high school; and

Experience: Such as may have been gained through: employment as an electrician which involved interpreting complex electrical construction wiring diagrams.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

SPECIAL REQUIREMENTS:

1. At the time of appointment and continually thereafter:
 - 1.1. Must possess and maintain a Class B Electrician license issued by the Rhode Island Board of Examiners of Electricians and must maintain such license as a condition of employment.
 - 1.2. Must possess and maintain a Rhode Island Commercial Driver's License (CDL), Class B with airbrakes, and must maintain such as a condition of employment.
 - 1.3. Compliance with the USDOT Federal Regulations of the Omnibus Transportation Employee Testing Act of 1991 and the State of Rhode Island's Drug & Alcohol Testing Program Policy & Procedures is a mandatory requirement and a condition of continued employment.
 - 1.4. Must be physically qualified to perform assigned duties as evidenced by a physician's certificate.
 - 1.5. Must possess and maintain a Hoisting License with an Aerial Lift Restricted Endorsement and Hydraulic Crane Restricted Endorsement, as regulated by the Rhode Island Department of Labor & Training.