

**CLASS TITLE: ELECTRICAL INSPECTOR (TRANSPORTATION)**

**Class Code: 02334200**

**Pay Grade: 23A**

**EO: C**

**CLASS DEFINITION:**

**GENERAL STATEMENT OF DUTIES:** To inspect and maintain electrical installations in conjunction with a statewide highway construction and maintenance program to insure that work in progress is completed and has been performed according to the construction plans and maintenance specifications; to inspect and maintain electrical installations in order to insure that the requirements of the National Electric Code and the National Electric Safety Code are being followed; 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 inspect and maintain electrical installations in conjunction with a statewide highway construction or maintenance program to insure that work in progress is completed and has been performed according to the construction plans and maintenance specifications.

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

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

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

To inspect and maintain traffic lights and their controllers to determine that the equipment is according to specifications and 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 electrical equipment, including varied types of metering equipment, ammeters, voltmeters, wattmeters, and illuminometers.

To notify the engineer in charge of the project when situations arise involving failure to follow plans and/or specifications.

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

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 electrician trade; a working knowledge of electronics; the ability to read and interpret complex electrical wiring plans and specifications; the ability to prepare reports concerning defects in electrical installations; 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: completion of senior high school; and

Experience: Such as may have been gained through: employment as a journeyman 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 REQUIREMENT:** At the time of appointment, must possess a Class B journeyman electrician's license issued by the Rhode Island Board of Examiners of Electricians and must maintain such license as a condition of employment.

Class Revised: May 24, 1987

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