

HIGHWAY SIGNAL TECHNICIAN

KIND OF WORK

Skilled electrical and electronics work.

NATURE AND PURPOSE

An employee in this class installs, alters, maintains, and repairs complex equipment, components, and circuitry for electronic traffic signal systems and highway lighting installations.

Work is performed independently in the field and under general guidance in the repair shop.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Installs traffic signal systems, traffic signal controllers, and auxiliary components as necessary.

Adjusts, maintains, and repairs electronic circuits of traffic signal controllers and vehicle and pedestrian detector systems.

Maintains and repairs all electrical circuits in traffic signal systems and highway lighting installations and makes replacements where necessary.

Determines that traffic signals are set in accordance with timing instruction charts as provided by the Traffic Signal Engineer or the District Traffic Engineer.

Makes adjustments in the positioning of signal heads to improve visibility for approaching traffic.

Performs related work as required.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Considerable knowledge of the components, parts, cycles of operation and sequences of motor-driven and electronically-timed traffic signal controllers, auxiliary components, and railroad pre-emption equipment.

Considerable knowledge of standard practices, materials, machines, and tools used in the installation and maintenance of electrical and electronic systems and equipment.

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Considerable knowledge of the state electrical code and the Underwriters' rules for electrical installations.

Considerable knowledge of occupational hazards and applicable precautionary measures.

Skill in:

Skill in the operation, maintenance, and repair of traffic signal control equipment.

Skill in the use of tools, testing devices, and machines used in the trade.

Ability to:

Ability to work from blueprints, sketches, schematic diagrams, timing instruction charts, and specifications.

LEGAL OR LICENSURE REQUIREMENTS

Registration with the Minnesota Board of Electricity as a Maintenance or a Class A Journeyman Electrician.

Est.: 9/2/64

Rev.: 11/92

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T.C.: 2/78

Former Title(s): Highway Signal
Technician 1