

# Missouri Department of Transportation

Code: R02350

Title: Electrician

Exemption Status: Non-Exempt

Grade: 11

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## Job Description

**Effective Date** 09-01-2014

**Replaces (Effective Date)** 01-01-2014

**General Summary** The electrician installs, maintains, and repairs traffic signals, roadway lighting, communications equipment, and related electronic devices. Responsibilities are performed under moderate supervision.

**Minimum/Required Qualifications** High School Diploma or GED/HiSET, plus completion of a formal post-secondary technical training program in electronics (of at least 30 credit hours and one school year in duration).  
International Municipal Signal Association Level I Certification Traffic Signals  
Valid Class B Commercial Driver's License with no air brake restriction and interstate status (either Excepted Interstate [EI] or Non-Excepted Interstate [NI]).  
Two years of experience in signal, lighting, and/or radio maintenance.  
Successful completion of a work simulation examination and a medical-physical examination.

**Supervisory Responsibilities** None

**Location** District Offices -Traffic

**Special Working Conditions/Job Characteristics** Job requires heavy physical exertion and effort, including the ability to move materials by hand, operate hand tools, and perform stationary flagging.

Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.

Job may require operation of vehicles to plow snow and spread ice control materials.

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## Examples of Work

- (1) Installs, troubleshoots and maintains signal systems and roadway lighting systems.
- (2) Determines appropriate repairs to signal and lighting equipment using test instruments or software and makes repairs as needed.
- (3) Troubleshoots, tests and repairs signal and lighting cabinets and components, portable changeable message signs, flashing arrow boards, and intelligent transportation system devices.
- (4) Programs common signal controllers/equipment, portable changeable message signs, and radio systems.

- (5) Responds to emergency and unscheduled trouble calls involving signal and lighting equipment and takes appropriate action.
- (6) Performs inspections on newly installed, modified, or repaired lighting/traffic intersections and intelligent transportation system equipment.
- (7) Performs utility locates as requested and in emergency situations for signal, lighting and the intelligent transportation system.
- (8) Installs, repairs, and replaces mobile and two-way base radios or other electronic equipment in vehicles.
- (9) Performs routine maintenance and repair of radios, microwaves, consoles, test equipment and other electronic equipment.
- (10) Maintains required records and documentation on the installation, maintenance, repair, or replacement of signals, lighting, and communication equipment.
- (11) Performs other responsibilities as required or assigned.

**The Missouri Department of Transportation promotes an equal opportunity workplace that includes reasonable accommodation of otherwise disabled applicants and employees. Please see your manager should you have any questions about this policy or these job duties.**