

TRAFFIC SIGNAL TECHNICIAN, SENIOR

Assignments include maintenance, installation and overseeing the installation, trouble shooting and repair of traffic signal control systems and the collection and maintenance of a variety of traffic safety and statistical data. Employees operating from the office or in the field perform tasks with limited supervision and are able and required to determine course(s) of action in resolving traffic signal operational problems with little or no instruction. Work may be on 24-hour call standby and may be hazardous. Work is checked periodically during progress or upon completion to insure it is conducted according to general guidelines and in conformity with accepted standards and procedures.

KEY OR TYPICAL TASKS AND RESPONSIBILITIES:

- Interprets layouts, electrical job assignments and procedures; operates equipment; obtains supplies; tests and measures electrical circuits; works to electrical codes and road standards as outlined by County policy or established through immediate supervisor.
- Installs, operates, maintains and repairs traffic signal system comprised of detector units, control cabinets, overhead and underground wiring systems, concrete bases, wood, aluminum and steel structures, back guys, signal heads and lamps and light sources.
- Installs, operates, maintains and repairs electrical control systems such as electrically-powered barricades, electrically-powered delineation systems, and interconnected changeable message signs.
- Conducts field studies for analysis of traffic such as travel time and radar speed studies, and field reviews the adequacy of various traffic control devices such as signs and pavement markings.
- Prepares written reports and maintains logs and records on a variety of traffic safety and statistical data in support of established monitoring programs and projects.
- Maintains an inventory of parts and supplies in support of traffic signal maintenance and emergency repair, recommends adequate inventory levels and orders supplies as necessary.
- Serves as inspector on Transportation construction projects relative to sign markings; signal installation, etc.
- Provides routine traffic data and information to public/private agencies and to the general public.
- May represent the County to organizations associated with traffic safety development.

- May supervise the work of subordinate personnel and assist in training new employees.
- Operates a variety of equipment (man-lifts, trucks, tools, etc.) to perform installation, maintenance and repair of traffic signal systems, makes approved splices, pulls cable, solders, hangs and terminates cables.
- Reviews proposed land developments to assess their impact on the County's traffic signal system; recommends adjustments necessary to ensure necessary signal functions for traffic control and safety.
- Reviews proposed road vacations and annexations to determine traffic signal needs and system design; suggest adjustments and traffic signal systems necessary to ensure traffic control and safety.
- Assists in the design and construction of specialized traffic signal devices and systems to meet traffic control and safety concerns presented by County roadways either in existence, being constructed, or proposed in land development, annexation, and related applications.
- Performs other related duties as assigned.

QUALIFICATIONS

Education and Experience:

- High School Diploma or G.E.D. and four (4) years experience in traffic signal installation, operation and maintenance and possession of the International Municipal Signal Association (I.M.S.A.) Level I Certification for Traffic Signal Technician or possession of a journey-level electrician's license or certification.

Knowledge of . . . traffic control systems including the installation and maintenance procedures for traffic signals; the County's transportation planning processes and specific plans;

Ability to . . . coordinate traffic signal plans and needs with transportation planning effort; resolve traffic signal operational problems in the field; prepare written reports, and maintain logs and records of statistical data; to review land use, annexation, and related applications, drawings and plans and identify and design traffic signal systems necessary to meet legal requirements, control traffic, and meet safety requirements; monitor and maintain a parts inventory and to compute quantities and costs of supplies; follow written and oral instructions and to express ideas effectively orally and in writing; to establish and maintain effective relationships with internal and external personnel.

WORK ENVIRONMENT AND PHYSICAL DEMANDS

Knowledge of the occupational hazards and safety precautions applicable to the work.

Ability to work outdoors for extended periods under unfavorable weather conditions, and to be available for 24-hour on-call duty.

Ability to obtain a valid (Washington State) drivers license at time of hire.

REVISED 10/98

Office use: 8/16/00