

TRANSPORTATION SYSTEMS TECHNICIAN 3

Job Code	Pay Grade
16388	CL20

Nature of Work

This is highly responsible advanced technical work that requires knowledge and skills implementing communications theory and principles to a highly complex transportation system. Job functions include designing, analyzing, configuring, and troubleshooting a complex communications network, core network switches, application servers, and workstations, field repairs, and maintenance of Intelligent Transportation System (ITS) devices and traffic control related equipment. An incumbent in this class is responsible for ensuring field and in-house ITS equipment and systems are properly functioning. Work is performed independently in accordance with established practices and assignments may include analyzing network diagrams, sketches, blueprints or schematics to document network design and relay information to subordinates and superiors. The incumbent works closely with the county's Business Technology Services (BTS) staff on network configuration, development, and troubleshooting the ITS network. The incumbent assist lower level technicians in network implementations, maintenance, and repairs. In addition, this incumbent supervises lower level technicians. The position reports to a supervisor or designee.

Minimum Qualification Requirements

- 5 years experience performing hands on technical fiber-optic cable support activities maintaining and repairing electronic networking and telecommunication devices, electronic Intelligent Transportation Systems (ITS) devices support or comparable equipment that includes lead worker, supervision or supervisory training; or.
- Associate's degree in information technology or completion of 2 years of vocational and information technology maintenance school training in a related field and 2 years experience as described above; or
- An equivalent combination of education, training and/or experience.

Appointing Authority May Also Require

- Florida Driver's License or Florida Commercial Driver's License and endorsement, if any.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Employee to either obtain or complete training and become officially certified to terminate fiber optic cable.
- Employee must obtain and possess an International Municipal Signal Association (IMSA) Level II Signal Certification within 1 year of appointment.
- Certification in Cisco or other Network Certification Systems.
- Other highly desirable knowledge, skills, abilities, and credentials relevant to a position.

Illustrative Tasks (These are examples and are not all inclusive.)

- Establishes and administers work plans as well as provides day-to-day supervision of lower level Transportation Systems Technicians in completion of their duties and evaluates performance.
- Designs, configures, deploys and maintains ITS network equipment including field switches, video encoders, and other IP based network equipment.
- Troubleshoots and repairs traffic control center computer equipment, servers, ITS and traffic related software.
- Provides liaison work with BTS Department in design, troubleshooting and repair of network core switch gear.
- Performs emergency and routine field servicing of Intelligent Transportation System devices including Closed Circuit Television Cameras (CCTV), Dynamic Message Signs (DMS) and vehicle detection equipment.
- Corresponds with consultants, vendors, equipment manufacturers and software developers for design, integration, compatibility and problem determination of ITS field and central computer equipment.
- Troubleshoots and repairs Ethernet network switches.
- Troubleshoots and maintains central video wall and video wall controller.
- Administers network controls including IP addressing, VPN access, subnet and system user access.

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Illustrative Tasks (continued)

- Reviews ATMS/ITS construction plans for network communications design criteria.
- Performs related work as assigned or required.

Knowledge, Skills, and Abilities

- Knowledge of principals and procedures of communications operating systems, capabilities, characteristics and limitations of LAN, WAN, micro computer systems, hardware and software and mainframe servers.
- Knowledge of data communications methods and techniques relevant to ITS hardware and software.
- Knowledge of standard practices, materials, tools and equipment used in fiber optic troubleshooting including Optical Time Domain Reflectometer (OTDR), light and power meters.
- Knowledge of local and national electrical equipment codes, occupational hazards and appropriate safety precautions.
- Knowledge of operating characteristics, capabilities and limitations of computer equipment and routine procedures.
- Ability to apply computer applications and software.
- Ability to program network core switch gear parameters.
- Ability to create, update and maintain network diagrams, schematics and maps.
- Ability to locate, define and repair defects in communication networks.
- Ability to relate technical information in a manner understandable to co-workers, superiors, other county departments and members of the public.
- Ability to interpret and work from highly technical blueprints and schematics.

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Created	EEOC Code	Overtime Code
9/13	Technicians	Classified