



Office of Human Resources  
Fiber Technician I – CJ3402  
THIS IS A PUBLIC DOCUMENT

### General Statement of Duties

Performs intermediate level duties installing, repairing and troubleshooting of fiber optic cable and underground junction boxes and conduit.

### Distinguishing Characteristics

The Fiber Technician I is distinguished from the Fiber Technician II which performs full performance level duties installing, repairing, and troubleshooting of fiber optic cable and underground junction boxes and conduit and handles the most complex assignments and situations that arise.

### Essential Duties

Install, maintain/repair and troubleshoot fiber optic cable, and underground junction boxes and conduit that supports the system outside plant fiber optic infrastructure by utilizing specialized equipment, devices, and processes.

Splices outside plant optical fiber together mechanically or with the help of a fusion splicer, terminates and tests the outside plant optical fiber with specialized equipment and devices, fiber enclosures, troubleshooting fiber optic cable, utilize load transmission readings, extensive span shot readings, cable placement, install patches, test patch cords, install radios for fiber cable bridges, install CAT5 cabling, and verify connectivity.

Oversee and assist internal and external stakeholders and offers technical assistance in drawing production work such as analysis, network design, topology layout, fiber splice plans, cable duct and routing.

Oversee contractors to provide outside fiber connectivity to traffic control cabinet.

Provide technical support for connecting transportation system fiber backbone, design splicing diagrams for connectivity to the transportation system and create the addition to the topology maps in CAD/GIS.

Responsible for the operation and maintenance of all aspects of the fiber optic infrastructure to ensure the safety and reliability of the CCD traffic signal systems. Ensures traffic signals cabinet ITS devices remain functional daily.

Addresses highly complex situations including field emergencies such as incidents and outages, coordination with contractors, working with multiple internal and external partners.

Conceptualize, maintain, and support engineers with design of the outside plant transportation system fiber infrastructure.

Performs other related duties as assigned.

Employees may be re-deployed to work in other capacities in their own agencies or in other City agencies to support core functions of the City during a City-wide emergency declared by the Mayor.

Any one position may not include all the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

**Competencies**

Customer Service - Interacts with customers in a friendly and professional manner, works to resolve issues quickly and effectively, and is knowledgeable about products and services.

Oral Communication - Expresses information to individuals or groups effectively; taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues and responds appropriately.

Technical Competence – Uses knowledge that is acquired through formal training or extensive on-the-job experience to perform one's job; works with, understands, and evaluates technical information related to the job; advises others on technical issues.

Technical Problem Solving - Troubleshoots, diagnoses, analyzes, and identifies system malfunctions to determine the source and cause of the problem.

Writing - Writes in a clear, concise, organized, and convincing manner for the intended audiences.

**Knowledge & Skills**

Knowledge of information technology sufficient to be able to perform maintenance, repair and installation of communications systems.

**Level of Supervision Exercised**

None

**Education Requirement**

Graduation from high school or the possession of a GED, HiSET or TASC Certificate.

**Experience Requirement**

Three (3) years experience performing maintenance, repair and installation of fiber optic cabling.

**Education and Experience Equivalency**

Additional appropriate education may be substituted for the minimum experience requirements.

**Licensure and/or Certification**

This job requires driving. Requires a valid Driver's License at the time of application.

Licenses and certifications must be kept current as a condition of employment.

**Working Environment**

Potential exposure to cement dust.

Potential exposure to hazardous conditions where there is danger to life, body, and/or health.

Potential exposure to hazards from electrical/mechanical/power equipment.

Handles emergency or crisis situations.

Noise: sufficient noise to cause distraction.

Occasional pressure due to multiple calls and inquiries.

Subject to injury from moving parts of equipment or vehicles.

Subject to injury from moving parts or equipment.

Subject to many interruptions.

Temperature Changes: Variations in temperature from hot to cold when works in the field.

**Level of Physical Demands**

3-Medium (20 - 50 lbs.)

**Physical Demands**

Agility: Ability to move quickly and easily.

Balancing: Maintaining equilibrium.

Carrying: Transporting or moving an object.

Color vision: Ability to distinguish and identify different colors.

Crawling: Moving about in a low or crouched position.

Crouching: Positioning body downward and forward.

Depth Perception: Ability to judge distances and space relationships.

Eye/Hand/Foot Coordination: Performing work through using two or more body parts or other devices.

Feeling: Perceiving attributes of objects by means of skin receptors, communication, or otherwise.

Field of Vision: Ability to sharply detect or perceive objects peripherally.

Fine Dexterity: Sufficient coordination to operate a vehicle and manipulate objects.

Fingering: Picking and pinching, through use of fingers or otherwise.

Handling: Seizing, holding, grasping, through use of hands, fingers, or other means.

Hearing/Talking: Perceiving and comprehending the nature and direction of sounds/ability to communicate ideas.

Kneeling: Assuming a lowered position.

Lifting: Moving objects weighing no more than 10 pounds from one level to another.

Neck Flexion: Perceiving objects located above or below.

Oral Comprehension: Ability to discern the meaning of oral speech.

Pulling: Exerting force upon an object so that it is moving to the person.

Pushing: Exerting force upon an object so that it moves away from the person.

Reaching: Extending the hands and arms or other device in any direction.

Repetitive motions: Making frequent or continuous movements.

Sitting: Remaining in a stationary position.

Standing: Remaining in a stationary position.

Stooping: Positioning oneself low to the ground.

Talking: Communicating ideas or exchanging information.

Vision Far Acuity: Ability to perceive or detect objects clearly at 20 feet or more.

Vision Near Acuity: Ability to perceive or detect objects at 20 inches or less.

Vision: Ability to perceive animal behavior, comprehend signs, and detect color.

Walking: Ability to move or traverse from one location to another.

Written Comprehension: Ability to discern the meaning of written words.

**Background Check Requirement**

Criminal Check

Employment Verification

License/Certification

Motor Vehicle Record

**Assessment Requirement**

None

**Probation Period**

Six (6) months.

**Class Detail**

**Pay Grade:** NE-18

**FLSA Code:** N

**Established Date:** 11/27/2022

**Established By:** AD

**Revised Date:**

**Revised By:**

**Class History:** 11/2022 – This is a new classification created for DOTI.