

### **Central Office Technician Overview:**

- Work inside a central office (CO) to install/remove and maintain the complex switching and routing equipment used in voice, video, fiber optics and data telecommunications networks.
- Will be part of a Team that designs and implements hardware/software requirements to meet the growing needs of the NNTC data network.

### **Essential Duties and Responsibilities:**

- install, maintain, test and repair complex switching, circuit, network and data/digital equipment
- may work on data/digital or CPE equipment
- survey and analyze alarms, test lines and trunks
- may work on cell, circuit, radio and network terminal equipment
- schedule and perform software back-ups and updates
- remove or replace connections on wire distributing frames
- perform turnup, acceptance, installation and provisioning of circuits
- Provide advanced support to Technicians in the field.
- maintain batteries, rectifiers and fuse alarms in central office power plants
- place, test and splice fiber optic cable
- Develop positive working relationship with co-workers.
- Perform inspection and maintenance activities on regular basis.
- Maintain documentations for all installations, maintenances, repairs and inspections.
- Comply with health, safety and environmental policies.
- Remove any unused or non-functional equipment
- Interface with Team for Network Planning and vendors to recommend and evaluate new technologies
- Maintain a positive attitude, and project a high level of professionalism on behalf of NNTC to the customer
- Maintain a clean and efficient work area, lab and data center

### **Qualifications:**

- interpret work schematics, circuit drawings and engineering specs
- good oral communication skills
- operate a laptop with MS Office programs
- operate equipment for testing and repair
- high-level understanding of telephony and electricity
- data systems (IP, LAN/WAN, optical, ethernet)
- DWDM timing and synchronization
- switching and routing
- IP addressing & routing
- advanced networking (VPN, ATM, SDH, MPLS, Wireless, SS7, SONET)
- Ability to analyze the performance of switching and peripheral data systems and initiate corrective action.
- MetaSwitch or equivalent experience
- Working knowledge of GPON and IPTV technologies
- Familiarity with network cabling (fiber, copper, installation standards, test & turn up)
- Understanding of Brocade, Ciena/Cyan, Calix.

- General understanding of operating systems such as Linux, Windows Server.
- Experience and/or training in Fiber Optic transmissions systems, installation, maintenance and troubleshooting

**Education and/or Experience:**

- Three years of current experience in a central office, related telephone field, or the equivalent in training and experience.
- Ability to work independently with little or no supervision
- Ability to complete work in a timely manner to keep customer service commitment times.
- Work inside an open office environment at a computer terminal for extended periods of time.
- May be required to run cables for various equipment, IO ports, on systems.
- Contacting customers, external and/or internal may be required.
- Adapt in changes in the business to include advances in technology, new skills and new procedures.
- Must be able to climb various types of ladders, sit, bend, stoop, stand, and walk, occasionally over uneven terrain, for extended periods.
- Travel within the region and/or throughout the country could be required
- Must maintain a valid driver's license with a safe driving record
- Must pass an extensive background check and/or drug screening tests
- This job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required by the employee. Position will be required to perform other duties as requested, directed or assigned.
- Ability to accept call-outs/standby, rotation nights, weekends and holidays as needed.
- After hour time will be needed occasionally to perform upgrades and maintenance work during our maintenance window.
- Function as a team player with ability and willingness to train on the job with unfamiliar or new equipment as needed.
- Ability to achieve required certifications and to successfully complete and required training or coursework.

**Advanced Education and/or Experience**

- Education: AA Degree in Telecommunications/Electronics or related field and/or equivalent experience.
- Five plus years recent experience in field as a Central Office technician.
- Formal technical training on central office, transmission and/or peripheral equipment.
- Equipment certifications/licensing/experience in: (RoadM, Fujitsu, Calix, Pair Gain, Multiplexers, MOE, DWDM, Fiber Optics, etc.)

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