

GENERAL POSITION DESCRIPTION

Position Title: SCTE Broadband TelecomCenter Specialist (BTCS)

Position Summary

The Broadband TelecomCenter Specialist (BTCS) certifies knowledge in maintenance and troubleshooting of the inside plant facilities to ensure minimal system outages, maximum reliability, and standards compliance for optimal operations. This certification includes knowledge of advanced entertainment, data and voice networks within the headend.

Position Duties

1. Perform Advanced Headend, Distribution Center and OTN maintenance associated with cable television operations. These tasks are, but not limited to:
 - a. System layout, interconnect , configuration and operation
 - b. Forward and reverse combining network path design, termination and distribution management ensuring optimum optical and RF levels are maintained
 - c. Installation, operation and troubleshooting of conditional access systems including the billing interface
 - d. Modulation encoding, transcoding, and decoding of signals
 - e. Baseband processing and routing fault isolation
 - f. Analog and digital commercial insertion system installation and operation
 - g. Installation and operation of multiplexing and grooming equipment
 - h. Documentation of facility connections
 - i. Monitor and maintain all core infrastructure (HVAC, AC and DC power plant, fire suppression systems, security)
 - j. Maintain all signal acquisition over all medias (over the air, satellite, direct feeds)
 - k. System Sweep installation and operation
 - l. Ensure FCC compliance (as related to the Headend) to include
 - (1) EAS system operation and documentation
 - (2) Proof-of-Performance

2. Oversee tower and microwave antenna operations and compliance with federal regulations
 - a. TVRO alignment and tuning
 - b. Off air antenna installation and tuning

Other

1. During the course of normal day-to-day activities:
 - a. Properly operate and maintain installation/service tools and equipment
 - b. Apply knowledge and skills of training on the job in order to prepare for transition to management or engineering
 - c. Mentor other employees on new and existing technologies
 - d. Perform other duties as requested by supervisor in order to achieve departmental goals and objectives

Qualifications:

- Working knowledge of the National Electrical Code (NEC), the National Electrical Safety Code (NESC), the Occupational Safety and Health Act (OSHA), Federal Communications Commission (FCC), Environmental Protection Agency (EPA), American National Standards Institute (ANSI), various applicable state and local codes, and pertinent SCTE standards.
- Knowledge of modern telecom video, voice and data products and services
- Knowledge of different cables and cabling techniques
- Knowledge of technical mathematic concepts
- Knowledge of computer hardware, software and the Internet and the ability to troubleshoot and resolve related service failures
- Working knowledge of video signal processing for program manipulation
- Working knowledge of advanced telecom center data, RF and optical test equipment and analyzers
- Working knowledge of video and audio codecs, compression formats and bandwidth management of digital baseband signals
- Working knowledge of CMTS and VoIP delivery systems
- Knowledge in various transport and interconnect protocols of digital signals
- Down conversion and receiver theory
- Familiar with controllers used on various systems in cable television Headend
- Advanced data networking skills to include operating systems, router configuration, TCP/IP, DHCP, and knowledge of ATM and SONET networks
- 6 – 8 years of focused experience in cable television Headend operations