

SCTE Broadband Distribution Specialist (BDS)

Scope

The **SCTE Broadband Distribution Specialist (BDS)** certifies knowledge in the subject matter related to the RF distribution of signals. All aspects of the network from the optical node to the distribution tap are included in this certification curriculum.

Specifics include:

- **System Architectures**—design principles and HFC architecture
- **Distribution Components**—actives, passives and coaxial cable
- **Signal Types**—analog, modulation schemes, frequency spectrum and impairments
- **Troubleshooting and Maintenance**—sweeping, FCC Rules, return path, test equipment, status monitoring and troubleshooting techniques
- **Construction**—coaxial cable handling, cable placement, bonding and grounding, activation and testing
- **Field Safety**—personal protective equipment, ladders, pole climbing, equipment and vehicle operation, battery handling

I. Systems Architectures

Competency	Knowledge, Skills, and Abilities
A. Explain the basic principles used to design and map the coaxial portion of the HFC network.	1. Describe Unity Gain
	2. Describe the cable system mapping process
	a. Identify the common symbols found on cable system strand and design maps
	i. End of line readings
	ii. Data boxes (tombstones)
	b. Name three types of system maps; distinguish between the following:
	i. Strand
	ii. Design
	iii. As-built
	3. Define the following powering elements and identify considerations when designing system power:
	a. Standby power
	b. Powering topologies
	i. Centralized
	ii. Distributive
	c. Emergency power sources for standby power supplies

Scte Bds Study Guide

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