

DS1 Fundamentals and Test Applications

Course Number	Delivery Method	Course Length	Language of Instruction
TT-DS1	Instructor-Led at Customer Site	1 Day	English
TT-DS1-OE	Instructor-Led at JDSU Site	1 Day	English
TT-DS1-VC	Instructor-Led via Virtual Classroom	3 two-hour sessions	English

Synopsis

DS1 technical theory and basic test applications are covered in detail, providing a solid foundation of knowledge that will benefit both experienced participants and those unfamiliar with the technology. Test application theory will teach how to perform practical installation and troubleshooting procedures.

Prerequisites

Introduction to Telecommunications (TT-TELCOM) or equivalent.

Who Should Attend

Technicians, engineers, and technical support personnel who are directly or indirectly responsible for installing and maintaining DS1 networks, and network operation center staff who monitor DS1 networks.

Course Goals

Upon completion of this course, participants will be able to:

- Label elements of a basic DS1 network
- Describe the basic structure of a DS1 signal
- Detail a structured approach to testing DS1 circuits

Course Outline

DS1 Basics (VC Session 1)

- Orientation and course goals
- DS1 background
- DS1 networks
- DS1 network elements
- How DS1s are carried
- Outline of four steps to a DS1

DS1 Details (VC Session 2)

- Building a DS1
 - Pulse code modulation
 - Time division multiplexing
 - Framing and overhead
 - Line coding
- DS1 timing
- Putting it all together

DS1 Test Applications (VC Session 3)

- DS1 test access points
- Test set status LEDs
- In-service monitoring of live DS1 circuits
- Out-of-service testing of DS1 circuits
- DS1 alarms
- Alarm indication signal

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Virtual Classroom session breakouts are approximate.

TT-DS1-v1.8

