

Network Testing with the Acterna FST-2310

Course Number	Delivery Method	Course Length	Language of Instruction
TT-2310S	Instructor-Led at Customer Site	2 Days	English
TT-2310S-OE	Instructor-Led at Acterna Site	2 Days	English
TT-2310S-VC	Instructor-Led via Virtual Classroom	3 three-hour Sessions	English

Synopsis

DS1, FT1, and DS3 technologies are examined in detail to create a solid foundation of technical knowledge. Participants use applications and practical exercises for installation and troubleshooting of DS1 and DS3 networks. This course benefits new technicians while also offering substantial material to benefit those with a basic understanding of the FST-2310 operations.

Prerequisites

Introduction to Telecommunications (TT-TELCOM) or a basic understanding of telecommunications principles.

Who Should Attend

Technicians, engineers, and technical support personnel who are directly or indirectly responsible for installing and maintaining DS1, or DS3 services.

Course Goals

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

- Operate the FST-2310 to install and maintain network services
- Verify proper operation of network equipment during installation
- Identify misoptioned network elements
- Perform straightaway and loop back BER tests on virtual tributaries and DS3 signals.

Course Outline

Overview of the FST-2310 (VC Session 1)

- Setup and configuration
- Status LEDs
- Mainframe specific results

DS1 Fundamentals (VC Session 1)

- DS1 network overview
- DS1 framing structure
- Line coding
- Error types/alarms

DS1 Application Testing (VC Session 2)

- Network access test points
- End-to-end testing
- Loop back testing
- VF level and VF tone testing

- Network synchronization testing

DS3 Fundamentals (VC Session 3)

- DS3 network overview
- DS3 framing structure
- Channelized/non-channelized DS3 systems
- DS3 line coding
- Error types/alarms

DS3 Application Testing (VC Session 3)

- Network access test points
- Errors, levels, and signal quality
- Monitoring/testing DS1/DS0 signals
- Installation/T3 turn-up
- Testing MUX/DEMUX
- DCS/DACS testing

To order and schedule training call toll free 1-866-228-3762

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TT-2310S Version 2.0

