

T1 and DS3 Fundamentals

Course Length

Two Day

Prerequisites

A fundamental understanding of telecommunications transmission principles will be useful for students taking this course

Course Objective

This is an introductory course for students with little or no experience in T1 transmission. This course will cover the key elements of digital transmission using T1 or DS3 circuits. This class is about 50% hands-on using common test equipment; where applicable network elements will also be utilized. ***This course can be customized to meet specific system requirements.***

COURSE OUTLINE

Digital Technologies

T1 Fundamentals

- 1) Building the T1 Frame
 - A/D Conversion
 - Signaling Bits
- 2) Framing Bits
- 3) T1 on the Span
 - Applying Line Code
 - AMI
 - B8ZS
- 4) End To End Connectivity
- 5) T1 Errors
- 6) T1 Alarms
- 7) T1 Test Patterns
- 8) Testing Overview

DS3 Fundamentals

- 1) Types of DS3 Signals
- 2) Low Speed Multiplexing
- 3) M2 Frame
- 4) High Speed Cards
 - Provisioning
 - Timing
- 5) Errors
- 6) Alarms
- 7) Test Patterns
- 8) Testing M13 Multiplexer

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