

Introduction to Legacy SONET Testing

This one-day course covers the basics of legacy SONET technology and its test applications using EXFO's FTB/IQS-8115/8120/8130 SONET/SDH Analyzers. This training session discusses both theoretical and practical aspects.

Content

Part 1: Legacy SONET – An Overview

- › DSn networks and their limitations
- › Benefits of synchronization
- › SONET networks
 - › Definition
 - › Rates and format
 - › Network elements
 - › Configurations and protection schemes

Part 2: Legacy SONET Testing Applications using EXFO's FTB/IQS-8115/8120/8130

- › Continuity test
- › BER test
- › Error sectionalization
- › Signal auto-detection
- › Alarm and error processing
- › Round-trip delay
- › Synchronization
- › Protection switching
- › Remote management
- › Scripting

Pre-Requisites

- › Basic comprehension of physics and mathematics
- › Basic knowledge of telecommunications

Methodology

The first part of this course consists of lectures using PowerPoint presentations and demonstrations, while the second part consists of specific hands-on testing exercises using EXFO's FTB/IQS-8115/8120/8130 SONET/SDH Analyzers.

Typical Schedule (can be modified to accommodate attendees' working schedule)

INTRODUCTION TO LEGACY SONET TESTING

8:00 a.m. to 12:00 p.m.

Part 1: Theory
› Overview of legacy SONET

12:00 p.m. to 1:00 p.m.

Lunch

1:00 p.m. to 5:00 p.m.

Part 2: Hands-On Session
› Legacy SONET testing applications using EXFO's FTB/IQS-8115/8120/8130

Documentation

Attendees will receive a binder containing copies of presentations and other printed handouts, if applicable. When available, a CD containing the electronic version (PDF format) of the presentation, as well as related application notes, will also be provided.

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