

Introduction to E1 and Datacom Testing

This one-day course covers E1 and datacom technologies, as well as how to test E1 circuits and access equipment with a Puma. The hands-on part of the training focuses on practical operation of the unit so as to put it to immediate use.

Content

Part 1: Theory of E1 and Datacom Testing

- Overview of E1 technology
- Overview of datacom technology

Part 2: Testing Applications Using EXFO's Puma

- The Puma: connection panels, front panel and screens
- Connection techniques
- Menu systems
- Test modes
 - E1 monitoring mode and BERT testing functions
 - Other basic test modes: voice/frequency, propagation delay and async testing
 - Optional test modes: frame relay, ISDN monitoring and call placement, etc.
- Software upgrade process

Pre-Requisites

- Basic understanding of E1 PDH telecom and datacom technology

Methodology

The first part of this course consists of lectures using PowerPoint presentations and demonstrations, while the second part consists of specific hands-on test exercises using the Puma equipment.

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

INTRODUCTION TO E1 AND DATACOM TESTING	
8:00 a.m. to 12:00 p.m.	<p>Part 1: Theory of E1 and Datacom Testing</p> <ul style="list-style-type: none"> — E1 telecom and datacom technologies — Puma platform range <p>Part 2: Testing Applications Using EXFO's Puma</p> <ul style="list-style-type: none"> — Using the Puma: rear connection panels, front panel controls and screen, navigating around the menus — Test mode selection and interface setup — E1 monitor test mode — Hands-on session
12:00 p.m. to 1:00 p.m.	Lunch
1:00 p.m. to 5:00 p.m.	<p>Part 2: Testing Applications Using EXFO's Puma (continued)</p> <ul style="list-style-type: none"> — BERT testing, setup, result screens, features, telecom and datacom interfaces — Voice/frequency testing — Propagation delay and other test modes — Software upgrade and installation options — Hands-on session

Documentation

Attendees will receive a binder containing copies of presentations and other printed handouts, if applicable.

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