

Fluke Networks 635 QuickBert™ I&M



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Course Length	Two (2) days
Course Code:	NFSQB101
Prerequisites	None. A basic understanding of telecommunications transmission principles will be useful for students taking course.
Course Overview:	This course focuses on proper troubleshooting and installation practices as well as an overview of fundamentals utilizing the 635 QuickBert. Over 60% of this course is hands-on labs and exercises.

*** This course can be customized or combined to meet specific requirements ***

Course Outline

Product Overview

- Hardware Overview
- Graphical Display
- Buttons
- Connectors
- Battery
- Cables



DS1 and Industry Standards and Industry Overview

Building a DS1 Signal

- Muxing
- Framing
- Coding

DS1 Network Equipment

CSU, NIU, Span repeaters, Office repeaters, DSX-1, DCS, etc

Framing

- Frame Organization
- D4/Superframing
- ESF framing
- SLC Framing

Fractional DS1

Line Coding

- AMI
- B8ZS

Timing

- Clock Sources
- Timing Options

SLA (Service Level Agreements)

- MTTR
- Availability

Installing DS1's

- BERT
- Recommended Stress patterns
- DS1 Test Access
- DS1 loop back Testing
- Straight away testing
- Testing for misoptions

Maintaining DS1's

- Monitoring Alarms and Errors

Isolating Troubles

- Test Access points
- DS1 Alarms
 - RAI (yellow)
 - AIS (alarm indication signal)

Performance Monitoring

- BPV's (CV's)
- Frame Errors
- CRC's

Network Synchronization Testing

- Timing
- Jitter