

Datacom Testing with the FIREBERD 8000/6000

Course Number	Delivery Method	Course Length	Language of Instruction
TT-Datacom	Instructor-Led at Customer Site	3 Days	English
TT-Datacom-OE	Instructor-Led at JDSU Site	3 Days	English

Synopsis

DataCom technologies are examined to create a solid foundation of technical knowledge. The course includes applications for Datacom (i.e., RS-232/V.24, RS-530/EIA-530, RS-449/V.36, Mil 188c, Mil-188-114, X.21) Communications Services. These applications are reinforced through practical exercises using the FIREBERD 8000 and FIREBERD 6000.

Prerequisites

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

Who Should Attend

Technicians, engineers, and technical support personnel who are directly or indirectly responsible for installing and maintaining telecommunications service as well as analyzing network interfaces.

Course Goals

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

- Demonstrate two areas where test patterns can be found on the FIREBERD 8000 and FIREBERD 6000
- List one advantage and one disadvantage of end-to-end testing over loopback testing
- Describe one benefit of an in-service test and an out-of-service test
- Perform two out-of-service frame relay non-stress tests using the FIREBERD 8000 and FIREBERD 6000
- List and explain five ATM results on the FIREBERD 6000 that are relevant to ATM Layer testing
- List and explain 5 Data results on the FIREBERD 8000 that are relevant to the Data Results category

Course Outline

Overview of the FIREBERD 8000

- Setup (Configuration)
- Basic Operations
 - Battery care
 - On-screen keyboard
 - E-mail
 - Web browser
 - Managing files
 - Establishing connections – serial, modem in/out, LAN, IP, clearing, swapping PCMCIA cards
- Status LEDs

Overview of the FIREBERD 6000

- Setup and configuration
- Status LEDs
- Mainframe specific results

DataCom Fundamentals

- Network Overview
- Terminology/OSI Model
- Physical Layer DTE/DCE
- Transmission Methods and Modes
- Synchronous/Asynchronous Timing
- Network Access Test Points
- Test Patterns

Application Testing with the FIREBERD 6000

- Network access test points
- End-to-end testing
- Loopback testing
- Test patterns

To order and schedule training, call toll free 1-866-228-3762
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Datacom Testing with the FIREBERD 8000/6000

DataCom and Internal RS-232/MIL-449 Interfaces

- RS-232/449 and RS-530 fundamentals
- RS-232/449 and RS-530 testing applications
- Interface specific status indicators and results

7-Step Basic Testing Operation w/FIREBERD 8000

1. Specifying site ID, analysis mode, test interval
2. Configuring test
3. Performing self test
4. Connecting to the circuit
5. Starting the test
6. Viewing test results
7. Restarting a test

DataCom Application Testing w/FIREBERD 8000

- End-to-End Testing vs Loopback Testing
- Performing BER analysis
- Round trip delay
- Troubleshooting inverted clocks
- Mainframe Specific Results
- Printing test results
- Managing test configurations
- Running test scripts

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