

VIAVI

RF Interference Analysis

Using the JD745/785 Base Station Analyzer

Synopsis

This 1-day technical training program introduces participants to RFoCPRI, Power, and Interference testing using the JD745/785 Base Station Analyzer (BSA). Participants will gain confidence with the user interface and menus of the BSA for configuring and performing testing applications.

Prerequisites

Introduction to Telecommunications (TT-TELCOM) or a basic understanding of telecommunications transmission principles, and prior experience with Cellular-based networks is recommended.

Who Should Attend

Technicians, engineers, and technical support personnel who want to know how to test RFoCPRI, Power, and Interference using the Base Station Analyzer.

Course Goals

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

- Navigate the BSA GUI and menus to configure for RFoCPRI, Power, and Interference testing applications
- Understand and demonstrate how to perform RFoCPRI, Power, and Interference testing using the Base Station Analyzer
- Demonstrate the ability to save and restore test configurations on the Base Station Analyzer

Course Information

Course Number

TT-JD745-785-INTRFNC

Delivery Method

Instructor-Led at Customer Site

Course Length

1 Day

Language of Instruction

English



Course Outline

Welcome and Introduction

- Orientation
- Course Goals

Base Station Analyzer (BSA) Functional Overview

- BSA Features & Capabilities
- BSA Orientation: Front/Top Panels Connector ports
- BSA Functional Overview: Keys/Keypad; User Interface orientation/navigation
- BSA System Setup & Maintenance
 - Using System Administration: logging in; changing password; locking limit key
 - Selecting User Preferences: Date & Time, Display Layout, Language, etc.
 - Battery Care; Service diagnostics
 - Upgrading Firmware/Software
- Saving and Managing files
- Measurement Analysis intro – how to use markers and peak search

Introduction to the BSA Testing Functions (may include Hands-On; only for applicable topics)

- Spectrum Analyzer: Spectrum; RF; Channel Power; Occupied Bandwidth; SEM; ACP; AM/FM Demodulation; Analysis
- Interference Analyzer: Spectrum; Sound; AM/FM Audio Demodulation; Interference; Spectrogram; RSSI; Analysis

- Cable and Antenna Analyzer: Reflection (VSWR, Return Loss); DTF (VSWR, Return Loss) Analysis
- RFoCPRI Interference Analyzer
- Channel Scanner: Channel; Frequency; Custom; Analysis
- Power Meter: Internal RF; External RF; Optical

Proper Fiber Care – Inspect Before You Connect

- Fiber Optic Connectors – Importance of proper cleaning
- Sources of Contamination – Inspect Before You Connect
- Fiber Cleaning Resources: chemicals, wipes/swabs, etc.
- Practical Approach to Fiber Care and Cleaning
 - Proper handling, cleaning, & inspection techniques
 - Analyzing end-faces

Interference and Interference Hunting

- Understanding Power & Noise
- Spectrum Analyzer Basics
- Instrument Connections and Settings
- Interference Examples

To order and schedule training, call toll free 1-844-GO-VIAVI (1-844-46-84284), Option 2. Or visit viavisolutions.com



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