

## TECHNICAL TRAINING

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### TRuepoint® 6500 Installation, Operation and Maintenance TRN-TR6500-01

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#### Course Specifics

Duration:	3 days
Class capacity:	10 students
Location(s) for open enrollment:	San Antonio, TX, USA Hamilton, Scotland, UK Lagos, Nigeria
Materials provided:	Instruction and user Manuals (USB) Student Handbook (e-Book) Datasheets (USB)



#### Course Description

The Aviat Networks TR6500 is a high capacity, full-featured trunking radio, capable of supporting 8 T/R channels in a single rack.

The **TR6500 Installation, Operation and Maintenance course** teaches students key functions of the TR6500 radio platform. The course includes an overview of all available modules and the chassis, initial setup, install and login, basic configuration with the CLI, system commissioning, configuration, diagnostics, maintenance and troubleshooting. Extensive hands-on labs (nearly 50% of the course duration) and case studies offer students with scenarios they will face in real deployments in their networks.

Courses are **conducted by AVIAT expert trainers** in a mentoring environment backed by their deep technology expertise and experience in implementation of microwave wireless and IP networks.

The TR6500 Installation, Operation and Maintenance course is **conducted at Aviat Training locations or can be arranged at customer sites.**

#### Target Audience

This course is intended for installation and service personnel responsible for installation, configuration, test and maintenance procedures for the TR6500 radio platform.

# TECHNICAL TRAINING

## Objectives

Upon successfully completing this course, participants will be able to perform:

- List the functions and features of the TRuepoint 6500
- Describe the hardware and configurations of the TRuepoint 6500
- Explain the signal flow through the radio at the block diagram level
- Perform installation, provisioning operation and preventive maintenance of the TR6500
- Troubleshooting techniques will be discussed in order to maintain the initial of reliability

## Prerequisites

1. Participants should have a basic understanding of Microwave and IP Fundamentals and have basic computer skills.
2. Each student must bring an IBM compatible laptop PC or an equivalent and have administrator rights on the PC.

The PC must have minimum parameters of:

- Pentium 4 or later w/ 1GB of RAM and 250 Mb of free hard drive space
- USB Port
- Ethernet 10Base-T LAN port with RJ-45 connector for local Ethernet connection
- 800x600 resolution, 256 color display (16-bit color)
- Microsoft Windows XP, Vista, or Windows 7
- TCP/IP installed and configured for LAN operation
- Web browser (Google Chrome recommended)

## Course Outline

### Overview and Theory of Operation

- Introduction
- Applications
- System Configurations
- Theory of Operations
- Signal Processing Unit
- Radio Frequency Unit

### Units Description and Configuration

- Individual Field Replaceable Units
- Layout Description
- Signal Flow
- Applications and Configurations
- Operator Control and Management Tools

## TECHNICAL TRAINING

### Operation and Maintenance

- General Information
- Software download and upgrade
- Protection Schemes
- Protection Switching

### Labs

- Operational Lab
- Customer Service Info Preparation
- Maintenance Lab
- Trouble Clearing Lab

### Required Equipment for Training Sessions at Customer Sites

#### RADIO

One equipment rack with 48VDC power supply (if using 48VDC PoE units).

At least 1 Traffic free hop – 2 radios talking to each other. (Path has been simulated with at least 60dB of attenuation, for troubleshooting training variable attenuators are preferred however not mandatory).

Radio links can be hired for duration of training course if required.

#### OTHER EQUIPMENT

Digital multimeter.

Ethernet tester (Applicable only for Ethernet configuration Training).

#### CLASSROOM SET UP

Sufficient in size to handle all participants, instructor, desks, chairs, classroom equipment. The room must have enough 110 AC (220) AC power and air conditioning to operate equipment, all students clients PC's and the server or radio as required.

#### Classroom Equipment

Marker board, SVGA or Overhead projector and screen.

#### Desk and Chairs

Desks or workstations with enough room for each student to write have open books, client PC and / or , keyboard and monitor.

#### Internet Access

Internet access through the server or through client PC.

### Pricing

Please contact your Aviat local sales team for a quote or email [aviatcareeducate@aviatnet.com](mailto:aviatcareeducate@aviatnet.com).