
Installation Best Practices Installations Procedures for Digital Microwave links TRN-IBP-01-A/B/C

Course Specifics

Duration:	1 days
Class capacity:	10 students
Materials provided:	Student Handbook (e-Book)



Course Description

The Aviat Networks Installation Best practices course provides an introduction to fundamental topics for microwave installation.

The Fundamentals of IP microwave radio communication course teaches students key functions on installations procedures for Microwave radio links.

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 course is conducted at **Aviat Training locations or can be arranged at customer sites**.

Target Audience

The Course is intended for installation and service personnel requiring a working knowledge of installation practices and procedures.

Prerequisites

- Participants should have a working familiarity of point-to-point microwave radio networks or RF systems, telecommunications fundamentals and basic computer skills.
- Each student must bring an IBM compatible laptop PC.

Objectives

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

- Participants will be proficient in the standards and procedures recommend by Aviat Networks for installation of digital microwave radio equipment

Course Outline

Safety

- RF and Microwave safety
- Electrical hazards
- Chemical hazards
- Laser and Fiber optic cable hazards
- Hoisting and rigging safety
- Weather considerations
- ESD protection

Antennas

- Antenna characteristics
- Polarization
- Alignment

Split mount radios

- Outdoor unit installation
- Coax cable installation

Lightning Protection

- Importance for lightning protection
- Aviat Networks requirements
- Types of protection
- Installation of lightning protection

Commissioning

- Purpose of commissioning
- Commissioning procedure
- Recommended commissioning tests

Planning

- Pre-installation planning
- NMS planning
- Golden site installation

All indoor radios

- Feeder/waveguide installation
- Pressurization
- Testing

Grounding

- Site grounding
- Equipment grounding
- Rack grounding
- Cable grounding
- Ground termination
- Testing ground connections

Cable Management

- Guidelines for cable management
- Cable installation

Required Equipment for Training Sessions at Customer Sites

RADIO	Not Applicable.
OTHER EQUIPMENT	Not Applicable.
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 & Scheduling

Please contact your Aviat local sales team for a quote or email aviatcareeducate@aviatnet.com and request pricing for the following items:

TRN-IBP-01-01E	Installation Best Practices (4/5 hours) E-Learning.
TRN-IBP-01A	Installation Best Practices (1-day) Open Enrollment.
TRN-IBP-01B	Installation Best Practices (1-day) at Aviat.
TRN-IBP-01C	Installation Best Practices (1-day) at customer site.