

Fundamentals of VSAT Systems & Protocols

Kigali (Rwanda)

2 - 6 June 2025

UK Training

PARTNER



Fundamentals of VSAT Systems & Protocols

Code: GC28 From: 2 - 6 June 2025 City: Kigali (Rwanda) Fees: 4000 Pound

Introduction

This course covers the Very Small Aperture Terminal VSAT systems. VSAT is growing worldwide as a way of establishing private satellite communications networks for large organizations with several widely dispersed locations or providing higher bandwidth for the individual. This course provides the attendees with an in-depth background of VSAT techniques as well as a state-of-the-art update on key emerging technologies and future systems.

Course Objectives of VSAT Systems

- Defining Very Small Aperture Terminals VSAT.
- Understanding VSAT services and features.
- Understanding VSAT architecture, system design, and coding schemes.
- Stepping through VSAT propagation aspects and antennas.
- Understanding the VSAT subsystem & Launching.
- Understanding VSAT link design and analysis.
- Explaining TCP/IP, VoIP, and Video applied to VSAT.
- Understanding VSAT-based IP communications technologies.

Course Details/Schedule of VSAT Systems

Day 1

Introduction to VSAT systems and their types

- Satellite Communications Overview.
- Common Types of Satellites.
- What is a VSAT System?
- How does a VSAT Work?

Day 2

VSAT services and features

- VSAT Networks.
- VSAT Equipment.
- VSAT Access Methods.
- VSAT Modulation.

Day 3

VSAT propagation aspects



- RF and Microwave applied to VSAT.
- Propagation Effects.
- Earth Stations.
- VSAT Terminals.

Day 4

VSAT Antennas & Polarization

- VSAT Antennas.
- VSAT Dish Pointing Concepts.
- VSAT Footprints.
- Polarization.

Day 5

VSAT subsystem & Launching

- Fundamentals of VSAT Installation and operation.
- The key installation steps.
- Troubleshooting and maintenance.
- Preventive Maintenance.



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