

# Fundamentals of VSAT Systems & Protocols Course

Telecom Engineering  
Cape Town (South Africa)  
10 - 14 Feb 2025

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## Fundamentals of VSAT Systems & Protocols Course

**Ref:** 3285\_137990 **Date:** 10 - 14 Feb 2025 **Location:** Cape Town (South Africa) **Fees:** 3300 Euro

## Fundamentals of VSAT Systems & Protocols Course

### Introduction

This course covers Very Small Aperture Terminal VSAT systems. VSAT is growing worldwide as a way of establishing private satellite communications networks for large organizations that have several widely dispersed locations or provide higher bandwidth for individuals. This course provides attendees an in-depth background of VSAT techniques and 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-base IP communications technologies.

### Marketing Communications in VSAT Systems

In the context of media and communications courses, it is important to recognize the role of VSAT systems as a marketing communication channel. Understanding the definition of communication in marketing and how VSAT fits into this can benefit marketing communications specialists. Using VSAT in marketing and communications allows for integrated marketing communication across geographically widespread locations. The strategic alignment of VSAT aligns with the media planning courses, enabling efficient transmissions and marketing communication strategies.

### 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?

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## 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.

By incorporating these outlines, the course now interweaves the significant elements of media and communication, highlighting the importance of VSAT systems in marketing and communications. This may be of particular interest to professionals involved in media communications and those anticipating enrolling in media planning and marketing and communications courses.

A graphic illustration of a chessboard with several chess pieces. A large gold king piece is the central focus, with a silver pawn and a silver knight nearby. The board is checkered, and there are concentric white circles radiating from behind the king piece, suggesting a signal or broadcast. The text 'UK Training PARTNER' is overlaid on the right side of the image.

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