

Satellite Link Budget Analysis with SatMaster Pro Training

Telecom Engineering
Lisbon (Portugal)
22 - 26 Sep 2025

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Satellite Link Budget Analysis with SatMaster Pro Training

Ref: 321387_139347 **Date:** 22 - 26 Sep 2025 **Location:** Lisbon (Portugal) **Fees:** 4400 **Euro**

Course Description

This intensive 5-day course provides comprehensive training on satellite link budget analysis using SatMaster Pro software. Participants will gain in-depth knowledge of satellite communication principles, link budget calculations, and practical applications across various frequency bands and satellite systems.

Learning Objectives

- Understand fundamental concepts of satellite communications and link budgets
- Master the use of SatMaster Pro software for link budget calculations
- Analyze and optimize satellite network performance across different scenarios
- Apply link budget techniques to real-world satellite communication challenges
- Interpret and troubleshoot link budget results for various satellite systems

Course Modules

Day 1: Introduction to Satellite Communications and Link Budgets

- Satellite communication basics and frequency bands
- Link budget fundamentals and components
- Introduction to SatMaster Pro interface and features
- Basic link budget calculations using SatMaster Pro

Day 2: Advanced Link Budget Concepts and Calculations

- Detailed analysis of link budget parameters
- Atmospheric and environmental effects on link budgets
- Modulation and coding techniques in satellite communications
- Hands-on exercises with complex link budget scenarios

Day 3: VSAT Systems and Interactive Services

- VSAT network architecture and link budget considerations
- Two-way interactive satellite services
- Link budget analysis for VSAT networks using SatMaster Pro
- Optimization techniques for VSAT link budgets

Day 4: Mobile Satellite Systems and Non-GEO Constellations

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- Link budgets for mobile satellite terminals
- LEO and MEO satellite constellation analysis
- Dynamic link budget calculations for non-GEO systems
- Practical exercises using SatMaster Pro for mobile and non-GEO scenarios

Day 5: Advanced Applications and Real-world Case Studies

- Multi-beam satellite systems and interference analysis
- Link budget considerations for emerging satellite technologies
- Troubleshooting and optimizing link budgets
- Case studies and group projects using SatMaster Pro

Practical Wins for Participants

- Ability to perform accurate link budget calculations for various satellite systems
- Proficiency in using SatMaster Pro software for professional applications
- Skills to optimize and troubleshoot satellite network performance
- Confidence in applying link budget analysis to real-world satellite communication challenges

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