

5 Days Workshop: Telecommunication System Engineering

Telecom Engineering
Rome (Italy)
15 - 19 Sep 2025

UK Traininig

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5 Days Workshop: Telecommunication System Engineering

Ref: 321819_147588 **Date:** 15 - 19 Sep 2025 **Location:** Rome (Italy) **Fees:** 4200 **Euro**

Course Description

This intensive 5-day workshop provides a comprehensive overview of telecommunication system engineering. Participants will gain in-depth knowledge of network architecture, digital transmission systems, wireless communications, and emerging technologies. The course combines theoretical concepts with practical applications, preparing engineers for the challenges of modern telecommunications.

Learning Objectives

- Understand the fundamentals of telecommunication system architecture and design
- Master digital transmission techniques and protocols
- Analyze wireless communication systems and mobile networks
- Explore emerging technologies in telecommunications
- Develop skills in network planning and optimization

Course Modules

Day 1: Introduction to Telecommunication Systems

- Overview of telecommunication networks
- System engineering principles
- Network architecture and protocols
- Transmission media and signal propagation

Day 2: Digital Transmission Systems

- Digital modulation techniques
- Multiplexing and multiple access methods
- Error detection and correction
- Optical fiber communications

Day 3: Wireless Communication Systems

- Cellular network principles
- Mobile network technologies 2G to 5G
- Wireless LAN and satellite communications
- Radio frequency planning and management

The logo for UK Training Partner features the text 'UK Training' in a small, black sans-serif font, with 'PARTNER' in a large, bold, black sans-serif font below it. The background of the logo is a stylized chessboard with a king piece and a pawn piece, and concentric circles representing signal waves.

Day 4: Network Management and Security

- Network performance monitoring
- Quality of Service QoS management
- Cybersecurity in telecommunications
- Disaster recovery and business continuity

Day 5: Emerging Technologies and Future Trends

- Internet of Things IoT in telecommunications
- Cloud-based network services
- Software-defined networking SDN
- 6G and beyond: future of telecommunications

Practical Wins for Participants

- Ability to design and optimize telecommunication networks
- Skills to troubleshoot complex system issues
- Knowledge to implement cutting-edge technologies
- Expertise to lead telecommunication projects effectively

A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight nearby. In the background, there are concentric circles emanating from a point, suggesting a signal or network. The text 'UK Training' is written in a small, black sans-serif font above the word 'PARTNER' in a large, bold, black sans-serif font.

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