

5 Days Workshop: Telecommunication System Engineering

11 – 15 January 2027
Amsterdam (Netherlands)

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Ref: 321819_172076 **Date:** 11 – 15 January 2027 **Location:** Amsterdam (Netherlands) **Fees:** 5900 GBP

Why This Course

The telecommunications landscape is evolving rapidly, driven by advances in digital transmission, wireless technologies, and emerging innovations like IoT and 6G networks. To design, manage, and optimize modern networks, engineers need both deep technical expertise and practical skills.

This intensive 5-day workshop equips professionals with a comprehensive understanding of telecommunication system engineering. By combining theory, hands-on applications, and real-world case studies, participants gain the knowledge and tools needed to tackle the challenges of contemporary network design, management, and innovation.

What You'll Learn and Practice

By participating in this course, you will:

- Understand the fundamentals of telecommunication systems and network architecture.
- Master digital transmission techniques, modulation, and error correction protocols.
- Analyze wireless communication systems and mobile network technologies.
- Explore emerging technologies, including IoT, SDN, and future 6G networks.
- Develop practical skills in network planning, optimization, and security.
- Gain the ability to troubleshoot complex network issues and implement cutting-edge solutions.

The Program Flow

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

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Day 3: Wireless Communication Systems

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

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

Individual Impact

- Build confidence in designing, managing, and optimizing complex telecommunication networks.
- Enhance technical proficiency in both wired and wireless systems.
- Develop problem-solving skills to tackle emerging network challenges.

Work Impact

- Implement robust and secure telecommunications networks within your organization.
- Optimize network performance, quality, and reliability.
- Lead projects that integrate advanced technologies and future-ready solutions.
- Contribute to strategic decision-making in network planning and deployment.

Training Methodology

This course blends theory, practice, and hands-on application to ensure actionable learning:

- Interactive lectures and discussions on key technical concepts.
- Practical exercises in network design, optimization, and troubleshooting.
- Case studies and real-world scenarios to apply theoretical knowledge.
- Group activities to simulate engineering challenges and solutions.

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A graphic of a chessboard with several chess pieces. A large gold king piece is in the foreground, with a silver pawn and a silver knight behind it. The board is checkered, and there are concentric circles in the background.

Beyond the Course

Participants will leave equipped to:

- Design and optimize telecommunication systems efficiently.
- Apply emerging technologies to improve network performance and scalability.
- Lead and manage telecommunication engineering projects with confidence.
- Stay ahead in a rapidly evolving industry by implementing innovative solutions.

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