

TELECOMMUNICATION SYSTEM ENGINEERING TRAINING

London - UK

09 - Nov 2026 - 13 - Nov 2026

\$6,000



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TRAINING CENTER



Introduction

Telecommunication System Engineering is a crucial field that underpins the global communications infrastructure. With the continuous advancements in technology, the demand for skilled professionals in telecommunication systems is higher than ever. This 5-day course, offered by Gentex Training Center, is designed to provide participants with the necessary knowledge and practical skills to understand and manage telecommunication systems efficiently. Through this course, attendees will gain in-depth knowledge of the design, implementation, and management of modern telecommunication systems used in a variety of industries.

Telecommunication System Engineering Course Objectives:

- Gain a thorough understanding of telecommunication principles, including transmission, modulation, and multiplexing techniques.
- Learn how to design and analyze telecommunication networks, understanding key components such as switches, routers, and base stations.
- Understand the operation of cellular networks, wireless communication systems, and broadband technologies.
- Develop an understanding of the standards and regulations governing telecommunication systems.
- Gain hands-on experience with the latest tools and technologies used in the telecommunication industry.

Who Should Take This Course:

- Telecommunication engineers
- Network engineers



- IT professionals working in telecommunication networks
- Engineers looking to expand their knowledge in telecommunication systems
- Project managers overseeing telecommunication projects
- Technical consultants in the telecommunication sector

Telecommunication System Engineering Course Outlines:

Day 1: Introduction to Telecommunication Systems

- Overview of telecommunication systems
- Key components: transmitters, receivers, and transmission media
- Basic principles of signal transmission and modulation techniques
- Introduction to analog and digital communication systems

Day 2: Telecommunication Networks

- Network design and architecture
- Circuit-switched vs. packet-switched networks
- Understanding network topologies and protocols
- Introduction to routing and switching technologies
- Hands-on exercises with network simulation tools

Day 3: Wireless Communication Systems

- Understanding wireless technologies: GSM, CDMA, LTE, and 5G
- Cellular network architecture and operation
- Wireless network design and troubleshooting



- Signal propagation and interference issues

Day 4: Broadband Technologies and Internet Protocols

- Understanding broadband technologies: ADSL, fiber optics, and cable systems
- Internet protocol (IP) fundamentals
- Configuring and managing broadband networks
- QoS (Quality of Service) and its importance in modern networks

Day 5: Telecommunication System Management and Standards

- Managing telecommunication networks and systems
- Telecommunication standards and regulations (ITU, IEEE)
- Telecommunication security protocols and challenges
- Future trends in telecommunication systems and innovations

Conclusion:

By successfully completing the Telecommunication System Engineering course, participants will acquire the knowledge and practical skills necessary to manage and optimize telecommunication systems effectively. The course equips professionals with the expertise required to stay at the forefront of telecommunication technologies. Gentex Training Center offers an exceptional learning experience that ensures a deep understanding of the subject matter.