

Contract and Tender Management in International Projects

Edinburgh (UK)

16 - 20 June 2025

UK Training

PARTNER



Contract and Tender Management in International Projects

Code: PM28 From: 16 - 20 June 2025 City: Edinburgh (UK) Fees: 4700 Pound

Introduction

In today's digital age, computer network design plays a crucial role in enabling organizations to achieve their goals efficiently and securely. The ability to design robust, scalable, and innovative network architectures is essential to meet the demands of modern organizations. This advanced five-day course aims to equip participants with the latest methods, techniques, and best practices in network engineering and design. Through a combination of theoretical learning and practical exercises, participants will gain the skills needed to design innovative networks that support organizational goals and contribute to digital transformation.

Course Objectives

- Provide a comprehensive understanding of network design principles, methodologies, and architectures.
- Develop advanced skills in assessing organizational requirements, analyzing network traffic patterns, and designing scalable and secure network infrastructures.
- Explore emerging technologies such as cloud computing, software-defined networking SDN, network virtualization, and the Internet of Things IoT, and their impact on network design.
- Enhance proficiency in selecting and integrating technologies and protocols to optimize network performance, security, and reliability.
- Develop skills in creating detailed network design documentation, including diagrams, topology maps, and configuration guidelines.
- Increase knowledge of best practices, standards, and compliance requirements for network design, including regulatory compliance and data privacy considerations.
- Provide hands-on experience with network design tools and simulation software to reinforce theoretical concepts and practical skills.

Course Outline

Day 1

- **Introduction to Network Design Principles**
- Overview of network design methodologies and frameworks.
- Understanding organizational requirements and business objectives.
- Principles of scalable and secure network architectures.

Day 2

- **Assessing Organizational Requirements and Analyzing Network Traffic**
- Conducting needs analysis and requirements gathering.
- Identifying critical applications and services.
- Traffic analysis techniques and tools.
- Predictive modeling for network capacity planning.

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Day 3

- **Designing Campus and Data Center Networks**
 - Best practices in campus network design.
 - Data center network architectures: Traditional vs. Cloud-based.
 - Integrating virtualization and cloud technologies into design.

Day 4

- **Security in Network Design and Emerging Technologies**
 - Security design principles and methodologies.
 - Threat modeling techniques and risk assessment.
 - Concepts and benefits of network virtualization and SDN.
 - SDN network engineering and deployment models.

Day 5

- **Documentation, Compliance, and Practical Exercises**
 - Creating comprehensive network design documentation.
 - Compliance requirements and standards.
 - Hands-on exercises using design tools and simulation software.
 - Case studies and practical scenarios for applying design principles and problem-solving.

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BLACKBIRD
FOR TRAINING

 International House 185 Tower Bridge
Road London SE1 2UF United Kingdom

 +44 7401 1773 35
+44 7480 775526

 Sales@blackbird-training.com

 www.blackbird-training.com

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