

Certified Network Infrastructure Design Professional Course

2027 12 - 8
London (UK)

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R20221986_129718 **Location:** London (UK) **Fees:** 6100 GBP

Why This Course

Modern organizations depend on reliable and scalable network infrastructure to support digital operations, cloud connectivity, and data-driven services. Designing and managing complex network environments requires both strong technical knowledge and the ability to plan and execute infrastructure projects effectively.

This intensive 5-day program equips network professionals with the skills needed to design, implement, and manage advanced network infrastructure solutions. By combining industry standards, technical design practices, and project management principles, participants will learn how to create resilient network architectures and deliver comprehensive technical documentation for successful deployments.

What You'll Learn and Practice

By participating in this program, you will:

- Design scalable and resilient network architectures for various environments.
- Apply industry standards and best practices in network infrastructure design.
- Strengthen project management capabilities for infrastructure deployments.
- Develop detailed technical documentation and network design reports.
- Identify and mitigate risks in complex network infrastructure projects.
- Integrate modern technologies such as data centers and cloud connectivity into network designs.

The Program Flow

Day 1: Fundamentals of Network Infrastructure Design

- Understanding core network design principles and methodologies.
- Designing networks for scalability, reliability, and performance.
- Exploring key components of modern network infrastructure.
- Introduction to structured cabling systems and infrastructure planning.

Day 2: Structured Cabling Systems and Standards

- Understanding cabling technologies including copper and fiber optics.
- Applying TIA/EIA and ISO/IEC cabling standards.
- Designing horizontal and backbone cabling systems.
- Testing, certification, and quality assurance for cabling infrastructure.

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Day 3: Network Architecture and Topology Design

- Understanding common network topologies such as star, mesh, and hybrid models.
- Designing networks for high availability and redundancy.
- Integrating data centers, cloud services, and distributed systems.
- Implementing fault-tolerant and resilient network architectures.

Day 4: Project Management in Network Infrastructure Design

- Understanding the project lifecycle for network infrastructure projects.
- Budget planning and cost estimation for infrastructure deployments.
- Resource allocation and timeline development.
- Identifying potential risks and developing mitigation strategies.

Day 5: Technical Documentation and Industry Compliance

- Preparing comprehensive network design documentation.
- Using modeling and simulation tools for network planning.
- Ensuring legal, regulatory, and industry compliance.
- Understanding industry certifications and infrastructure standards.

Individual Impact

- Strengthen expertise in network design and infrastructure planning.
- Improve project management skills for complex technical projects.
- Develop the ability to produce professional network design documentation.
- Gain practical knowledge for managing scalable and resilient network systems.

Work Impact

- Improve reliability and scalability of organizational network infrastructure.
- Support successful implementation of network infrastructure projects.
- Enhance compliance with industry standards and best practices.
- Reduce operational risks through better infrastructure planning.

Training Methodology

The program integrates technical theory with hands-on design exercises to ensure practical learning outcomes. Learning methods include:

- Instructor-led technical demonstrations and discussions.
- Case studies of real-world network infrastructure deployments.
- Hands-on exercises in network design and modeling.
- Group activities focused on project planning and risk analysis.
- Practical templates and tools for infrastructure documentation.

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A graphic of a chessboard with several chess pieces (a king, a queen, and a pawn) in the foreground, set against a background of concentric circles.

Beyond the Course

By the end of the program, participants will be able to:

- Design complete network infrastructure solutions for complex environments.
- Manage infrastructure projects from planning through implementation.
- Produce professional technical design documentation aligned with industry standards.
- Evaluate risks and implement strategies to ensure reliable network performance.

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