

Network Infrastructure Design Professional Certification

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Barcelona (Spain)

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Network Infrastructure Design Professional Certification

R202219881797731 **Location:** Barcelona (Spain) **Fees:** 5900 GBP

Why This Course

Designing modern network infrastructure requires a combination of technical expertise, strategic planning, and effective collaboration with stakeholders. As organizations increasingly rely on complex network environments that integrate both Inside Plant ISP and Outside Plant OSP systems, professionals must be able to design scalable, reliable, and high-performance networks that meet evolving operational requirements.

This intensive 5-day program equips IT and network professionals with the advanced skills required to design and manage network infrastructure projects from concept through implementation. Participants will learn how to analyze requirements, conduct site surveys, develop detailed design documentation, and deliver solutions aligned with industry standards and performance objectives.

What You'll Learn and Practice

By participating in this program, you will:

- Master the full lifecycle of network infrastructure design from concept to deployment.
- Develop expertise in designing campus and enterprise network infrastructure projects.
- Optimize network performance while meeting defined KPIs and operational requirements.
- Strengthen stakeholder engagement and collaboration throughout the design process.
- Prepare professional tender responses and technical proposals.
- Understand key considerations for both ISP and OSP network infrastructure.

The Program Flow

Day 1: Fundamentals of Network Infrastructure Design

- Understanding core network design principles and methodologies.
- Analyzing customer requirements and defining key performance indicators KPIs.
- Overview of ISP and OSP infrastructure components.
- Understanding the role and responsibilities of the network infrastructure designer.

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A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The board is white and black checkered, and the pieces are arranged in a strategic formation.

Day 2: Site Survey and Analysis

- Conducting structured and comprehensive site surveys.
- Assessing existing network infrastructure and identifying limitations.
- Recognizing environmental, technical, and operational constraints.
- Documenting survey findings and developing design recommendations.

Day 3: Detailed Design Development

- Creating logical and physical network design diagrams.
- Selecting suitable network technologies and topologies.
- Designing networks for scalability, flexibility, and resilience.
- Integrating security considerations into infrastructure design.

Day 4: Project Management and Stakeholder Collaboration

- Managing the network design project lifecycle.
- Communicating effectively with technical and non-technical stakeholders.
- Identifying project risks and implementing mitigation strategies.
- Planning budgets, resources, and project timelines.

Day 5: Documentation and Tender Response

- Preparing professional network design documentation.
- Developing tender responses and RFQ submissions.
- Presenting technical solutions and design proposals to clients.
- Ensuring compliance with relevant industry standards and regulations.

Individual Impact

- Strengthen expertise in advanced network infrastructure design.
- Improve the ability to manage complex technical projects.
- Enhance skills in preparing professional design documentation and proposals.
- Gain confidence in presenting and defending design solutions.

Work Impact

- Improve the reliability, scalability, and efficiency of network infrastructure projects.
- Strengthen collaboration between technical teams and stakeholders.
- Support successful project delivery through structured planning and documentation.
- Ensure compliance with industry standards and best practices.

A graphic of a chessboard with several pawns. In the foreground, a large gold king piece stands prominently. Behind it, several smaller pawns, some gold and some silver, are positioned on the board. The background features concentric circles, suggesting a signal or network. The text 'UK Training' is written in a small, sans-serif font above the word 'PARTNER', which is in a large, bold, sans-serif font.

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Training Methodology

This program combines technical instruction with practical design exercises to ensure participants gain hands-on experience. Learning methods include:

- Instructor-led technical demonstrations and discussions.
- Case studies based on real-world infrastructure design projects.
- Hands-on exercises in network diagram development and planning.
- Group activities focused on project management and stakeholder communication.
- Practical templates and tools for professional design documentation.

Beyond the Course

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

- Lead complex network infrastructure design initiatives.
- Conduct site assessments and develop optimized network architectures.
- Produce professional technical documentation and tender responses.
- Deliver infrastructure solutions that meet operational requirements and performance targets.

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.

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