



*Training Course:  
Network Architecture and Infrastructure Design*

*27 - 31 October 2025  
London (UK)  
Landmark Office Space - Portman Street*

## Training Course: Network Architecture and Infrastructure Design

Training Course code: IT235849 From: 27 - 31 October 2025 Venue: London (UK) - Landmark Office Space - Portman Street Training Course Fees: 6000 € Euro

### Introduction:

In today's digital world, robust, scalable, and secure networks are the backbone of any organization's IT infrastructure. Designing such networks requires a deep understanding of technology, design principles, and the ability to plan for scalability and security. This 5-day training is designed to help professionals and aspiring engineers acquire essential skills in network design and infrastructure planning.

### Training Objectives:

- Understand the core principles of network design and infrastructure.
- Learn how to design scalable, efficient, and secure network infrastructures.
- Explore advanced topics such as network security, redundancy, and performance optimization.
- Gain hands-on experience in using network design tools and strategies.
- Prepare for real-world network deployment, troubleshooting, and management.

### Target Audience:

- Network Engineers
- IT Infrastructure Managers
- System Administrators
- Aspiring Network Architects
- IT professionals looking to advance their network design skills
- Technical Managers and Decision Makers

### Outlines:

#### Day 1:

##### Introduction to Network Design

- Overview of networking concepts and types of networks

- Key networking devices and their roles
- OSI and TCP/IP models
- Introduction to IP addressing and subnetting
- Basic network topologies and their application
- Introduction to network design tools and techniques

#### Day 2:

##### Advanced Network Components and Design Principles

- Understanding Layer 2 and Layer 3 devices
- Network redundancy and high availability
- IP addressing and subnetting for large networks
- Designing scalable and resilient network architectures
- Network security fundamentals: firewalls, VPNs, and ACLs
- VLANs, trunking, and inter-VLAN routing

#### Day 3:

##### Network Security and Performance Optimization

- Network security measures: firewalls, VPNs, and IDS/IPS
- Network segmentation and secure access
- Performance optimization: QoS, traffic shaping
- Monitoring and diagnosing network performance
- Redundancy, failover, and disaster recovery strategies

#### Day 4:

##### Cloud Networking and Virtualization

- Introduction to cloud networking concepts
- Hybrid and multi-cloud network design
- Virtualization in networking: SDN, NFV

- VPNs and SD-WAN in cloud environments
- Network security and monitoring in the cloud

#### Day 5:

##### Practical Design & Real-World Case Studies

- Step-by-step network design process
- Troubleshooting and performance testing
- Real-world case studies: enterprise-scale networks
- Final project: Design and present a complete network solution
- Review of key topics and Q&A session

## Registration form on the Training Course: Network Architecture and Infrastructure Design

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
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### Company Information

Company Name: .....  
Address: .....  
City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
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### Easy Ways To Register

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