# Business Computer Networking and Infrastructure Training Course

26 – 30 July 2027
Dubai

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Training Center

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**Ref:** 1656_222312 **Date:** 26 – 30 July 2027 **Location:** Dubai **Fees:** 4500 Euro

## Overview

Business Computer Networking and Infrastructure Training Course is a one-week foundation-to-practitioner programme for IT support personnel and junior network administrators, who leave with a Business Network Design and Support Pack. It covers LAN and WAN architecture, Ethernet switching, VLANs, IPv4 and IPv6, routing, DHCP, DNS, Wi-Fi, internet connectivity, VPNs, security, monitoring and fault isolation. Participants build a resilient small-to-medium business design. Agile Leaders Training Center develops practical business computer networking capability.

## Who Should Attend

- IT support personnel responsible for user and network connectivity
- Junior network administrators responsible for daily network operation
- Systems technicians responsible for infrastructure services
- Business technology teams responsible for small-office networks
- Service-desk personnel responsible for first-line fault diagnosis
- Infrastructure coordinators responsible for suppliers and documentation

The course assumes participants can use operating-system network settings and basic command-line tools, and it leaves out advanced carrier routing, penetration testing and vendor certification.

## Departments and Industries

The course supports organisations that require secure and supportable computer networks for business operations.

- Information technology, infrastructure and service management
- Retail, hospitality, professional services and logistics
- Healthcare, education, government and charities
- Manufacturing, construction and property operations
- Small and medium enterprises and managed service providers

## Learning Objectives

By the end of this course, participants will be able to:

- Build a logical and physical business network design
- Apply Ethernet switching, VLAN and trunking concepts
- Design IPv4 and IPv6 addressing plans
- Configure DHCP, DNS, routing and internet-service requirements
- Evaluate Wi-Fi, VPN and network-security controls
- Diagnose connectivity and performance faults

## Course Agenda

### Day 1: Business Network Architecture

- Business Service and Device Inventory
- LAN, WAN and Internet Edge Map
- Physical and Logical Topology Diagram
- Bandwidth, Availability and Growth Requirements
- Network Documentation Baseline

### Day 2: Ethernet, VLANs and IP Addressing

- Ethernet Switching and MAC Address Table
- VLAN Segmentation and Access-Port Plan
- 802.1Q Trunk and Inter-VLAN Routing Map
- IPv4 Subnetting and Address Allocation Plan
- IPv6 Prefix and Dual-Stack Deployment Plan

### Day 3: Network Services and Connectivity

- Static and Dynamic Routing Decision Map
- DHCP and DHCPv6 Scope Design
- DNS Resolution and Record Management
- Internet Gateway, NAT and Provider Handover
- Site-to-Site and Remote-Access VPN Requirements

### Day 4: Wireless, Security and Operations

- Wi-Fi Coverage, Capacity and Channel Plan
- Guest, Staff and Device Network Segmentation
- Firewall Policy and Secure Management Checklist
- NIST CSF 2.0 Small-Business Control Review
- Monitoring, Logs, Configuration and Backup Plan

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## Day 5: Troubleshooting and Capstone

- Exercise: Trace a Layered Connectivity Fault
- Exercise: Diagnose DHCP and DNS Failure
- Exercise: Resolve VLAN and Routing Misconfiguration
- Exercise: Review Wi-Fi and VPN Performance
- Capstone: Business Network Design and Support Pack

## Practical Exercises

Suggested activities use a simulated business topology and operational evidence.

- Suggested activity: create VLAN and dual-stack addressing plans
- Suggested activity: map DHCP, DNS, routing and internet dependencies
- Suggested activity: diagnose a multi-layer connectivity incident
- Suggested activity: produce a resilient network support pack

## FAQs

### Who should take business computer networking training, and what does it assume?

It suits IT support personnel, junior administrators and systems technicians and assumes familiarity with operating-system network settings and basic diagnostic commands.

### How does business computer networking differ from an advanced enterprise networking course?

Business networking concentrates on supportable LAN, Wi-Fi, internet, VPN and core services for smaller environments, while advanced courses address complex routing, automation, scale and specialist architectures.

### Why do business networks use VLANs?

VLANs separate broadcast domains and support policy boundaries for users, guests, devices and services when switching, routing, addressing and security controls are designed consistently.

### How do DHCP and DNS support a business network?

DHCP supplies approved addressing and configuration, while DNS maps service names to addresses. Both require planned scopes, records, availability, security and monitoring.

### Does business networking training cover IPv6?

Yes. Participants plan IPv6 prefixes, /64 LAN segments, DHCPv6 or SLAAC choices, DNS records and dual-stack dependencies without treating IPv6 as an isolated add-on.

## Conclusion

Participants take back a Business Network Design and Support Pack containing topology, VLAN, addressing, service, Wi-Fi, VPN, security and troubleshooting artefacts. It makes dependencies and responsibilities visible. It helps IT teams deploy consistent connectivity, isolate faults, protect business services and plan network growth.