



Network Engineer SCQF Level 8 Workshop Breakdown

Course 1: Principles of Project Management 1 Day

- Introduction to Projects
- Stakeholders
- Business Cases
- Project Planning
- Risk Management
- Project Monitoring and Change Control

Course 2: Network Infrastructure and Administration

Part 1 – 3 Days

- Characteristic of an enterprise network
- Configuring and implementing network components

Part 2 – 2 Days

- Network troubleshooting
- Network management tools
- QOS and metrics

Course 3: Network Design 3 Days

- Determining network design requirements
- The network design process
- Principles of network design
- Network design parameters
- Logical and physical design
- Assessing network related risk
- Network design and configuration documentation

Course 4: Network Security and Implementation

3 Days

- Securing network devices, systems and data
- Identifying network security requirements
- Port security
- NAC, antivirus, anti-malware, firewalls and VPNs
- Installing and configuring firewalls, anti-virus, content filtering and IDS
- Unified threat management and next gen firewalls

Course 5: Advanced Network Security and Monitoring

3 Days

- Network hardening
- Evaluating/auditing network security compliance
- Network segmentation
- Securing wireless networks
- Monitoring network traffic for threats
- Reviewing network audit logs
- Reporting and escalating network security threats
- Documenting network security implementations

Course 6: Digital Transformation

1 Day

- Digital transformation in businesses and the principles of business change
- Modelling business processes and formulating proposals for new digital technology solutions, cost-benefit analysis
- The legislative and regulatory requirements, organisational policies
- The safe use of digital technology equipment in the workplace
- The integration of digital technologies within business processes
- Reduce costs, enhance performance, and improve productivity and service benefits
- Ethics and the implementation of the digital transformation in businesses

Course 7: Meta Skills & Professionalism

Digital Only Module

- What are Meta Skills
- Personal Professionalism
- How People Learn
- Personal Reflection and Performance Reviews
- SMART Objective Setting
- Development Plans, Career Planning and CPD
- Feedback and Wellbeing

Optional: AI for Everyone

Introduction to Microsoft 365 Copilot – digital content – 1 hour self-paced learning

AI Literacy: Safe & compliant AI use for all staff – digital content – 2 hours self-paced learning

Upgrade your productivity with Copilot – 90-minute webinar

Hands-on Copilot ½ day session:

By the end of this course learners will be able to recognise the purpose and capabilities of Microsoft 365 Copilot

