

Network Engineer Level 4 (2018 Start)

Month	July	August	September	October	November	December	January	February	
IT Training and Assessing	Induction and Skills assessment	Networking	Networking	Networking	Networking	Networking	Networking	Networking	
College training	<p align="center">1 day</p> <p>Day 1: Set up eCardio. Start portfolio - first project</p>	<p align="center">3 Days</p> <p>Day 1: Introduction to No. OSI model, Ethernet, Switching, Unicasts, broadcasts and multicasts, Protocol data units, network segmentation, Spanning tree</p> <p>Day 2: Switch interfaces, static and dynamic routing, IGP, EGP, Dynamic routing, IPv4 and IPv6 addressing, configuring IPv6, prioritising traffic, NAT, ACL, circuit switching, packet switching, software defined networking</p> <p>Day 3: Binary maths, IPv4 addressing, classful subnetting</p>		<p align="center">4 days</p> <p>Day 1: Review of prior week, IPv4 subnet masks, calculating subnets and hosts, assigning IPv4 addresses, assigning IPv6 addresses, network topologies, common network types, IoT, wireless standards, cellular standards</p> <p>Day 2: Cloud services, DNS, DHCP, NTP, copper, optical fibre, ethernet standards, networking devices, virtual networking, availability, power management, recovery sites, backup and recovery, remote access, policies and best practice</p> <p>Day 3: Physical security, authorisation, authentication and accounting, multi-factor authentication, wireless encryption, wireless authentication, DoS and DDoS, Social engineering, insider threats, logic bombs, rogue access points, wardriving, phishing, ransomware, DNS poisoning, brute force attacks, VLAN hopping, MITM, vulnerabilities and exploits</p> <p>Day 4: Device hardening, mitigation techniques, switch port protection, network segmentation, network troubleshooting, hardware tools, command line tools, software tools, wired network troubleshooting, network service troubleshooting, wireless network troubleshooting, review, exam tips</p>				<p align="center">5 days</p> <p>Day 1: Initial test, Network Infrastructure components</p> <p>Day 2: Client server operating systems</p> <p>Day 3: Virtualisation</p> <p>Day 4: Virtualisation Practical</p> <p>Day 5: Middleware</p>	
Assessment	Assessor review	Assessor review	Assessor review	Assessor review	Assessor review	Assessor review	Assessor review	Assessor review	
Quanta training									
Certification exam									
Employer projects	Review current project progression. Assess portfolio. Set next project and directed learning.	Review current project progression. Assess portfolio.	Review current project progression. Assess portfolio.	Review current project progression. Assess portfolio. Set next project and directed learning.	Review current project progression. Assess portfolio. Set next project and directed learning.	Review current project progression. Assess portfolio. Set next project and directed learning.	Review current project progression. Assess portfolio. Set next project and directed learning.	Review current project progression. Assess portfolio. Set next project and directed learning.	
Progress reviews	Assessor review	✓ <input type="checkbox"/>	Assessor review	Assessor review	Assessor review	Assessor review	Assessor review	Assessor review	
Month	March	April	May	June	July	August	September		
IT Training and Assessing	Network systems & architecture	Network systems & architecture	Network Security	Portfolio	EPA	EPA	EPA		
College training	<p align="center">5 days</p> <p>Day 1: Initial test, Load balancing, Legislation, Regulation, Standards and Codes of Practice</p> <p>Day 2: Designing Resilient Network Connectivity, Organisational systems</p> <p>Day 3: Testing Network Connectivity</p> <p>Day 4: Equipment Installation and Configuration</p> <p>Day 5: Exam</p>		<p align="center">5 days</p> <p>Day 1: Initial test, Types of security threat</p> <p>Day 2: Types of security threat</p> <p>Day 3: Mitigating security threat</p> <p>Day 4: Mitigating security threat</p> <p>Day 5: Exam</p>						
Assessment		Internal online test							
Quanta training									
Certification exam									
Employer projects	Review current project progression. Assess portfolio.	Review current project progression. Assess portfolio.	Review current project progression. Assess portfolio. Set next project and directed learning.	Review current project progression. Assess portfolio. Set next project and directed learning.	Review current project progression. Assess portfolio. Set next project and directed learning.				
Progress reviews	Internal exam	Assessor review	Internal exam	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>	