

Template for CBQ units

Unit	Networking principles 1	
SSC Code	NET1	
SQA Code	H3BN 04	
SCQF Level	5	
SCQF Credit Value	6	
Guided Learning Hours		
Unit summary		
Learning Outcomes The learner will:	Assessment Criteria	
1 Know different network infrastructure topologies	<p>1.1 Describe logical and physical network topologies as given in the IEEE802 standards for LANs and WANs</p> <p>1.2 Describe the different types of network cabling systems and their associated connectors.</p> <p>1.3 Describe the different types of wireless LAN</p> <p>1.4 List the functions of repeaters, bridges, switch routers and gateways, identifying their roles in a network topology</p> <p>1.5 Describe the difference between passive, active and intelligent hubs</p>	
2 Know the OSI model and the TCP/IP suite	<p>2.1 State the function of the OSI model layers</p> <p>2.2 List the TCP/IP protocols</p> <p>2.3 List the types of addresses used on networks and why they are used</p>	

3 Know the advantages and disadvantages of different types of network	3.1 Describe the properties of different types of networks. 3.2 Describe the advantages and disadvantages of different types of networks.
4 Know media access control methods and protocols used in local area networks	4.1 Describe types of media access control methods used in networked systems. 4.2 Describe protocols used in networked systems 4.3 Explain what is meant by a collision and how network systems deal with them
Additional information about the unit	
Guidance on approaches to assessment	Further guidance is set out in the CBQ Assessment principles developed by e-skills UK and agreed by the Joint Awarding Body Forum.
Details of the relationship between the unit and relevant National Occupational Standards or other professional standards	This unit is based on the e-skills UK NOS for IT professionals (PROCOM) available from www.e-skills.com/nos
Location of the unit within the subject/sector classification system	IT Professional
Name of the organisation submitting the unit	e-skills UK