

Template for CBQ units

Unit	Networking principles 2	
SSC Code	NET2	
SQA Code	H3BP 04	
SCQF Level	6	
SCQF Credit Value	10	
Guided Learning Hours		
Unit summary		
Learning Outcomes The learner will:	Assessment Criteria	
1. Understand physical and logical network topologies	<p>1.1 Describe common physical network topologies</p> <p>1.2 Explain the difference between logical and physical network topologies</p> <p>1.3 Describe the functions and role of hardware and software components used to implement common data communication systems</p> <p>1.4 Identify the bandwidth limitations of different types of network cabling and connectors,</p> <p>1.5 Describe the different types of wireless standards</p>	
2. Understand the Open System Interconnection (OSI) model	<p>2.1 Describe the OSI model and how its layers relate to each other</p> <p>2.2 Explain the function of each layer of the OSI model</p> <p>2.3 Describe the key features, protocols and standards of each OSI layer</p>	
3. Understand the Internet Protocol Suite (TCP/IP)	<p>3.1 Explain the Internet Protocol Suite (TCP/IP) and the function of its four layers</p> <p>3.2 Describe the key features, protocols and standards of each TCP/IP layer</p>	

	<p>3.3 Explain how TCP and IP protocols are used to facilitate delivery of data packets</p> <p>3.4 Explain how TCP/IP relates to the OSI model.</p>
<p>4 Design a LAN Infrastructure to meet a given requirement.</p>	<p>4.1 Design a routed network to meet given specification.</p> <p>4.2 Select the components required to construct and configure the network</p> <p>4.3 Describe how network security would be implemented.</p> <p>4.4 Prepare a test plan.</p>
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