

Systems Architecture 2

Unit	Systems Architecture 2	
SSC Code	SA2	
SQA Code	H3BF 04	
SCQF Level	6	
SCQF Credit Value	8	
Guided Learning Hours	77	
Unit summary	This unit provides the learner with an understanding of the computer architecture for stand-alone and distributed or networked systems. The learner will develop an understanding of the features and functions of a computer operating system and be able to configure it for use.	
Learning Outcomes The learner will:	Assessment Criteria	
1 Understand the representation of information within a computer and the way it is processed.	<p>1.1 Describe how number systems and data representation are used to store and process different types of data</p> <p>1.2 Describe the operation of input, output and storage devices using correct technical terminology</p> <p>1.3 Describe the characteristics of C.P.U. components and the operation of the Fetch Execute Cycle</p>	
2 Use and configure operating systems.	<p>2.1 Use and configure operating system interfaces</p> <p>2.2 Use and configure operating system functions to improve performance</p> <p>2.3 Describe how concurrent processes are managed in computer operating systems</p> <p>2.4 Describe how operating system features can contribute to data and system security</p>	
3 Understand the principles of distributed computer operations	<p>3.1 Outline the features of different architectures of distributed computer systems</p> <p>3.2 Describe the functions and operation of operating systems used in distributed computer systems</p>	

	<p>3.3 Describe the operation of computer networking devices</p> <p>3.4 Describe the characteristics and operation of distributed applications</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