

Systems Architecture 1

Unit	Systems Architecture 1	
SSC Code	SA1	
SQA Code	H3BE 04	
SCQF Level	5	
SCQF Credit Value	6	
Guided Learning Hours	64	
Unit summary	This unit provides the learner with a basic knowledge of how data is represented and processed in computer systems. The learner will develop an understanding of the features and functions of a computer operating system for stand-alone and distributed systems.	
Learning Outcomes The learner will:		Assessment Criteria
1 Know the representation of information within a computer.	1.1 Outline how number systems and data representation are used to store information in a computer 1.2 Identify the role of input, output and storage devices 1.3 List the characteristics of C.P.U. components and outline the operation of the Fetch Execute Cycle 1.4 Outline the operation of a peripheral device	
2 Know and use an operating environment	2.1 Describe the purpose of an operating system 2.2 Use operating system interfaces and functions 2.3 Describe the methods of process management in computer operating systems 2.4 Identify how operating system features can contribute to data and system security	
3 Know the principles of distributed computer operations	3.1 Outline the function and operation of operating systems used in distributed computer systems 3.2 Describe the functions of computer networking devices	

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