

Unit	IT & Telecom System security 3	
SSC Code	SEC3	
SQA Code	H3B1 04	
SCQF Level	8	
SCQF Credit Value	12	
Unit summary		
Learning Outcomes The learner will:		Assessment Criteria
1. Understand threats to IT & Telecoms systems	1.1 Evaluate physical threats to systems and data 1.2 Evaluate electronic threats to systems and data 1.3 Explain the operation of common types of malicious code 1.4 Evaluate the security vulnerabilities associated with remote access technologies including wireless	
2. Understand how to protect IT & Telecoms systems	2.1 Evaluate methods of providing physical access control and security 2.2 Evaluate methods of providing electronic access control and security 2.3 Discuss the importance of maintaining the currency of security tools 2.4 Critically compare three Access Control Methods in common use.: 2.5 Explain cryptographic algorithms and their application to system security 2.6 Explain how keys and certificates can be used to provide data security	
3. Maintain and develop organisational system security	3.1 Evaluate current organisational tools and procedures for system security to identify possible improvements 3.2 Review organisational system security against best	

	<p>practice and external standards</p> <p>3.3 Implement agreed improvements to organisational tools, procedures and conventions for systems security</p> <p>3.4 Contribute to the development of organisational strategy for system security and disaster recovery</p> <p>3.5 Develop training and guidance materials on organisational tools, procedures and conventions for system security</p>
4. Manage system security	<p>4.1 Critically review system security for currency, completeness and compliance with organisational procedures</p> <p>4.2 Implement, configure and maintain security tools</p> <p>4.3 Analyse and interpret the results of security testing and monitoring activities</p> <p>4.4 Take action to mitigate perceived security risks or vulnerabilities</p> <p>4.5 Report on the consequences of any actual or attempted security breaches</p>
Additional information about the unit	
Guidance on approaches to assessment	<p><i>Learning Outcomes 3 & 4 of this unit must be assessed in the workplace.</i></p> <p>Further guidance is set out in the CBQ Assessment principles developed by e-skills UK and agreed by the Joint Awarding Body Forum.</p>
Details of the relationship between the unit and relevant National Occupational Standards or other professional standards	<p>This unit is based on the e-skills UK NOS for IT professionals (PROCOM) available from www.e-skills.com/nos</p>
Location of the unit within the subject/sector classification system	IT Professional
Name of the organisation submitting the unit	e-skills UK