Unit title	Principles of Information Security Testing 1
SQA code	H7D8 04
SCQF level	6
SCQF credit points	15
SSC ref	SECKTEST1

History of changes

Publication date: July 2014

Version: 01

Version number	Date	Description	Authorised by

Title	Principles of Information Security Testing 1

Learning Outcomes **The learner will:**	**Assessment Criteria** **The learner can:**
1 Understand the test process and testing techniques in relation to Information Security.	1.1 Describe the impact on organisations and individuals of failures to preserve the confidentiality, integrity and availability of information systems. 1.2 Explain the role of testing in preserving the confidentiality, integrity and availability of information systems 1.3 Explain the impact of Information Security on the test process. 1.4 Compare how static and dynamic testing techniques are applied to Information Security testing. 1.5 Describe how standard testing techniques are used when testing Information Security.
2 Understand the use of common tools for Information Security testing.	2.1 Describe how tools can be used to improve efficiency and reliability of Information Security testing. 2.2 Explain how to develop plans for Information Security testing.
3 Be able to carry out penetration testing.	3.1 Describe the role and applicability of penetration testing. 3.2 Describe common penetration testing techniques. 3.3 Carry out penetration testing according to given specifications.

Additional information about the Unit
Unit purpose and aim(s)
Security testing determines the level of resilience of an information system to information security threats and vulnerabilities through planning and applying testing methods, including penetration testing, for assessing the robustness of an information system, against a coordinated attack.
Details of the relationship between the Unit and relevant national occupational standards (if appropriate)
This Unit is based on the e-skills UK NOS for Information Security.
Details of the relationship between the Unit and other standards or curricula (if appropriate)
N/A
Assessment requirements specified by a sector or regulatory body (if appropriate)
This Unit may be assessed by any means which provides evidence that the candidate understands the content. Every effort should be made to relate the content to the candidate's organisation wherever possible.

Assessment (evidence) Requirements
The Unit may be assessed using any appropriate methods, or combination of methods, which clearly demonstrate the learning outcomes. Simulation is an allowed assessment method.
Guidance on Instruments of Assessment
Learners must complete real or simulated work activities in order to produce evidence to demonstrate they are occupationally competent. An e-portfolio approach is encouraged.