Unit	Testing IT & Telecoms Systems 3
SSC Code	TEST3
SQA Code	H3AW 04
SCQF Level	8
SCQF Credit Value	15
Unit summary	

Learning Outcomes The learner will:	Assessment Criteria
1. Understand the principles of IT & Telecoms testing	1.1 Explain the purposes of testing 1.2 Explain the factors which determine the applicability of different classes of test 1.3 Explain the importance of preparation and conclusion activities associated with testing and the circumstances in which they may be required 1.4 Explain organisational requirements and procedures for testing 1.5 Describe the capabilities of available test equipment and software
2. Plan for the testing of an IT or Telecoms system	2.1 Analyse available information to accurately define the functionality to be tested and the purpose of the test 2.2 Select and document the types, sequences and number of tests required to thoroughly test the defined functionality 2.3 Select, and where necessary adapt, test equipment or software to be used 2.4 Accurately determine the types and amounts of inputs and expected outputs for the planned tests 2.5 Define all required test preparation and conclusion activities
3. Control the testing of system components	3.1 Ensure that all required preparations are correctly implemented prior to carrying out tests

	3.2 Instruct others in the effective use of test equipment or software
	3.3 Ensure that all required activities have been correctly implemented following the completion of testing
	3.4 Develop documentation for recording test results
	3.5 Contribute to the development of organisational test strategy
4.Evaluate test results	4.1 Ensure that individual tests are correctly recorded and indicate source of any errors
	4.2 Ensure that test records are analysed to identify discrepancies between actual and expected outputs
	4.3 Investigate and document the probable causes of identified discrepancies and errors
	4.4 Examine multiple test records to identify trends or recurring discrepancies and errors
	4.5 Implement an action plan to respond to discrepancies and errors
Additional information about the unit	
Guidance on approaches to assessment	*Outcomes 2, 3 & 4 must be assessed in the workplace.* 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