Template for CBQ units

Unit	**Procedural computer programming 2**
SSC Code	PP2
SQA Code	H3AE 04
SCQF Level	6
SCQF Credit Value	12
Guided Learning Hours	
Unit summary	

Learning Outcomes The learner will:	Assessment Criteria
1. Implement a software design using procedural programming	1.1 Identify the program modules, data and file structures required to implement a given design 1.2 Select, declare and initialise variable and data structure types and sizes to implement design requirements 1.3 Select and implement control structures to meet the design algorithms 1.4 Select and declare file structures to meet design file storage requirements 1.5 Select and use standard input/output commands to implement design requirements 1.6 Make effective use of operators and predefined functions 1.7 Correctly use parameter passing mechanisms
2. Refine a procedural program to improve quality	2.1 Use an agreed standard for naming, comments and code layout 2.2 Define user functions to replace repeating code sequences 2.3 Implement data validation for inputs 2.4 Identify and implement opportunities for error

	handling and reporting
3. Test the operation of a procedural program	3.1 Make effective use of available debugging tools 3.2 Prepare a test strategy to an agreed format 3.3 Select suitable test data and determine expected test results 3.4 Record actual test results to enable comparison with expected results 3.5 Analyse actual test results against expected results to identify discrepancies 3.6 Investigate test discrepancies to identify and rectify their causes
4. Document a computer program	4.1 Create documentation to assist the users of a computer program 4.2 Create documentation for the support and maintenance of a computer program
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