Template for CBQ units

Unit	**Object oriented computer programming 2**
SSC Code	OOP2
SQA Code	H3AB 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 object oriented programming	1.1 Identify the objects and 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 Define relationships between objects to implement design requirements 1.4 Implement message passing between objects to implement design requirements 1.5 Implement object behaviours using control structures to meet the design algorithms 1.6 Select and declare file structures to meet design file storage requirements 1.7 Select and use standard input/output commands to implement design requirements 1.8 Make effective use of operators and predefined functions 1.9 Make effective use of an Integrated Development Environment (IDE) including code and screen templates
2. Refine an object oriented program to improve quality	2.1 Use an agreed standard for naming, comments and code layout

	2.2 Make effective use of encapsulation, polymorphism and inheritance 2.3 Implement data validation for inputs 2.4 Identify and implement opportunities for error handling and reporting
3. Test the operation of an object oriented driven program	3.1 Make effective use of the debugging facilities available in the IDE 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 an object oriented driven program	4.1 Create on-screen help 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