

Unit Title: Programming Fundamentals	
Level:	Two
Credit Value:	4
GLH:	32
OCNLR Unit Code:	CN0/2/LQ/013
Ofqual Unit Reference Number:	J/616/8901

This unit has 10 learning outcomes

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Be able to use the different data types provided by the programming language.	1.1. Write a program that uses data types provided by the programming language.
2. Be able to use assignment statements to calculate results from expressions using basic mathematical functions.	2.1. Write a program that calculates results from expressions using the basic mathematical functions (addition, subtraction, division and multiplication).
3. Be able to use selection commands.	3.1. Use at least three different selection commands to control program flow.
4. Be able to use loops.	4.1. Write a program that has at least one definite loop.
5. Be able to use subroutines.	5.1. Call a subroutine from within the main program and from inside another subroutine.
6. Be able to use functions.	6.1. Write a function and use it to return a value. 6.2. Use built-in functions to return values.
7. Be able to use arrays.	7.1. Use arrays to store data.
8. Be able to use logical operators AND, OR and NOT.	8.1. Write a program that uses the logical operators as part of a selection statement.

9. Be able to read from and write to data files.	9.1. Write a program that reads from and writes to data files.
10. Be able to debug a program.	10.1. Recognise and deal with syntax and logic errors.

Assessment

The grid below provides suggestions for the types of assessment activities that can be used with the unit attached to provide evidence for the learner's portfolio. Please refer to the OCN London Assessment Guidance document for definitions of each activity and the expectations for assessment practice and evidence for moderation.

Case Study		Project	✓
Written question & answer/test/exam		Role play/simulation	
Essay		Practical demonstration	✓
Report		Group discussion	
Oral question and answer		Performance/exhibition	
Written description		Production of artefact	✓
Reflective log/diary		Practice file	✓