Changing lives through learning

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. If delivering the graded version of this unit, please refer to the Provider Handbook for details on grading descriptors and the application of these across units within your programme.

Unit Title: Algorithms, Pseudocode and Trace Tables

Graded Unit Reference Number: GA33MTH07

Ungraded Unit Reference Number: UA33MTH07

Module: Mathematics; Maths for Computing

Level: Three (3)

Credit Value: Three (3)

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand the use of pseudocode for the design of algorithms	1.1 Define the terms pseudocode and algorithm
	1.2 Explain the advantages in using pseudocode to plan algorithms
	1.3 Use flow diagrams and pseudocode to plan straightforward algorithms
2. Understand the use of trace tables in white box testing	2.1 Distinguish between “white box” and “black box” testing
	2.2 Explain the advantages of desk-checking algorithms before programming solutions
	2.3 Use given trace tables and data to desk-check algorithms written in pseudo
	2.4 Design trace tables and select test data to desk-check own algorithms

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