

Unit Title: Quantitative Methods II
Level: Two
Credit Value: 9
GLH:
NOCN Unit Code: RB7/2/TE/010
QCA Unit Reference
Grading Descriptors: Not Applicable

This unit has 6 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Perform algebraic manipulation	1.1. Solve simultaneous linear equations. 1.2. Factorise algebraic expressions (including quadratics). 1.3. Solve quadratic equations by factorisation.
2. Apply knowledge of space and shape	2.1. Convert units including imperial to metric. 2.2. Calculate perimeters, areas and volumes.
3. Apply trigonometric techniques	3.1. Use Pythagoras theorem to solve problems in right angled triangles. 3.2. Use sine, cosine and tangent ratios to solve problems in right angled triangles. 3.3. Solve problems in two dimensions including angles of depression, elevation and bearings.
4. Apply trigonometric techniques	4.1. Plot graphs of simple quadratic functions. 4.2. Use graphical methods to solve simple quadratic equations.
5. Understand and use measures of probability	5.1. Calculate probabilities. 5.2. Use appropriate addition and multiplication rules of probability.
6. Demonstrate geometric constructions	6.1. Use a straight edge and a pair of compasses to produce standard constructions including – perpendicular bisector of a straight line – angle bisector – a triangle.

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ASSESSMENT INFORMATION

Guidance:

This grid gives details of the assessment activities to be used with the unit attached. Please refer to the NOCN Handbook for definitions of each activity and the expectations for assessment practice and evidence for moderation.

The assessment activities for this unit are indicated in the table below:

Key: P = Prescribed – this assessment method *must* be used to assess the unit.

O = Optional – this assessment method *could* be used to assess the unit.

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	

Signposting Key Skills

This unit offers clear opportunities for learners to provide evidence of achievement in Key Skills achievement in the following skill area/s:

Key Skill		Wider Key Skill	
Communication		Working with others	
Information Technology		Problem solving	
Application of Number		Improving Own Learning and Performance	

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Accredited Start date:
Accredited End date:
Unit Sector/Subject area:
Grading descriptors:
Availability for Use:

Purpose and Aim of the Unit	Free Text
Restrictions on the Availability	Free Text or N/A
Additional Assessment Requirements	Free Text or N/A
Details of relationship between the Unit and the NOS	Free Text or N/A
Details of relationship between the Unit and Standards (not NOS)	Free Text or N/A
Endorsement of the Unit by	Free Text or N/A