

## 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:** Additional Trigonometry

**Graded Unit Reference Number:** GA33MTH23

**Ungraded Unit Reference Number:** UA33MTH23

**Module:** Mathematics

**Level:** Three (3)

**Credit Value:** Three (3)

**Minimum Guided Learning Hours:** 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand how to solve trigonometric equations	1.1 Solve a quadratic trigonometric equation, in the interval $0 \leq \theta \leq 360^\circ$ , using the quadrant method
	1.2 Solve a trigonometric equation with a compound angle ( $n\theta + a$ ), in a given interval, using the quadrant method
2. Understand the trigonometric functions and their graphs	2.1 Apply the trigonometric ratios to solve problems, including problems involving the trigonometric algebraic inverses
	2.2 Sketch graphs of the trigonometric functions, including graphs of the trigonometric inverses
3. Understand how to use trigonometric identities	3.1 Apply the Pythagorean trigonometric identities to solve problems
	3.2 Apply the double angle formulae to solve problems
	3.3 Apply the compound angle formulae to solve problems
	3.4 Apply the harmonic formulae to solve problems

### 3.5 Apply the factor formulae to solve problems