# Access to H.E. National Programme Unit 

| Unit Title | Algebra |  |  |
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| Graded <br> Unit Code: | GA33MTH05 | Ungraded Unit Code: | UA33MTH05 |
| Pathway(s) | Science and Engineering <br> Construction and the Built Environment |  |  |
| Module(s) | Mathematics |  |  |
| Level | 3 | Credit Value | 3 |
| Valid from: | $1^{\text {st }}$ August 2014 | Valid to: | 31st July 2024 |

The following QAA grade descriptors must be applied if you are delivering the graded version of this unit:

| 1 | Understanding of the Subject |
| :--- | :--- |
| 3 | Application of skills |
| 7 | Quality |


| LEARNING OUTCOMES | ASSESSMENT CRITERIA |
| :---: | :---: |
| The learner will: | The learner can: |
| 1. Recognise quadratic functions and their properties and use methods to find solutions to quadratic functions | 1.1 Sketch the graph of a simple quadratic function and identify the vertex and line of symmetry |
|  | 1.2 Identify whether a quadratic function has equal roots, distinct real roots or no real roots |
|  | 1.3 Factorise a quadratic function to find its roots |
|  | 1.4 Use the method of completing the square to solve a quadratic equation |
|  | 1.5 Use the formula method to solve a quadratic equation |
| 2. Solve simultaneous equations | 2.1 Solve simultaneous linear equations with three unknowns |


| LEARNING OUTCOMES | ASSESSMENT CRITERIA |  |
| :--- | :--- | :--- |
| The learner will: | The learner can: |  |

