

## **GENERAL EDUCATION AND TRAINING CERTIFICATE**

## **NQF LEVEL 1**

## **ABET LEVEL 4 SITE-BASED ASSESSMENT**

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| **LEARNING AREA** | **:** | **MATHEMATICS AND MATHEMATICAL SCIENCES** |
| **CODE** | **:** | **MMSC4** |
| **TOOL** | **:** | **PROJECT** |
| **DURATION** | **:** | **3 WEEKS** |
| **MARKS** | **:** | **50** |

**This assessment tool consists of 3 pages.**

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| **INSTRUCTIONS AND INFORMATION FOR THE TEACHER** |  |  |

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| 1. | This project must be completed over a period of 3 weeks. |  |  |

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| 2. | It is important that class discussions be held and the progress of the learners is monitored at regular intervals |  |  |

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| 3. | Activity 1 is marked using a rubric and Activity 2 a memorandum will be used |  |  |

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| 4. | In this project learners will demonstrate the use a triangles to form different shapes |  |  |

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| 5. | Calculating the area and the perimeter of different shapes |  |  |

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| **ACTIVITY 1** |

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|  | This is a marking rubric for marking Question 1.1-1.5.1 |  |  |

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| Criteria | Level | | | | | Marks |
| 1 | 2 | 3 | 4 | 5 |
| Participation in a group | Learners do not function as a group | One or two learner in a group take part in an activity | Half of learners in the group are actively involved | Most learners are actively involved and share ideas | All learners are actively involved with in enthusiasm |  |
| Properties of the square | No effort made | Less than two properties given | At least two properties were identified | 3 to 4 properties are given | More than 4 properties given |  |
| Structures of different shapes | No structures made | Not all structure made | Less than four structures made | More than four structure made | Excellent structure |  |
| Presentation and general impression | Untidy work little effort taken with presentation. | Work in organised fashion, some effort taken | Partially presented | Work well presented, neat and complete | Excellent presentation |  |
| Concepts of shapes | Demonstrate little understanding and knowledge of the concept | Demonstrate mostly inappropriate concepts | Demonstrate a partial understand and knowledge of the main concepts | Demonstrate an understanding and the knowledge of the main concepts | Demonstrate a thorough understanding and knowledge of the concepts |  |
|  |  |  |  | TOTAL | |  |

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|  | 1.5.2 | 4 lines of symmetry***🗸***🗸 |  | (2) |

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| 1.6 | Area of a triangle🗸  🗸 🗸  🗸  🗸🗸 |  | (6) |

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| **ACTIVITY 2** |  |  |

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| 2.1.1 |  |  |  | (4) |

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|  | 2.1.2 | Triangular prism**✓** |  | (1) |

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|  | 2.1.3 | Rectangle, triangle, square✓✓ |  | (2) |

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|  | 2.1.4 | The volume of a triangular prism**✓**  **✓**  **✓✓**  Surface area of triangular prism**✓**  **✓**  **✓**  **✓**  **✓**  **✓** |  | (10) |

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| **TOTAL :** |  | **50** |