**Sample Assessment Outline**

Building and Construction

General Year 12

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Sample assessment outline

Building and Construction – General Year 12

Unit 3 and Unit 4

| **Assessment type and weighting** | **Assessment****weighting** | **Duration** | **Assessment task** |
| --- | --- | --- | --- |
| Design20% | 5**%** | Semester 1Week 1–3 | **Introduction to the Unit and workshop**Student orientation to the course and facilities **Task 1: Structural design for a residential backyard project**Design a structure to be constructed in a residential backyard; for example, cubby house, gazebo, garden arch, shade house |
| 3**%** | Semester 1Week 4–5 | **Task 2: Drafting proposed structure**Complete scaled working drawingsSelect materialsEstimate quantities, costs and prepare materials listsConstruction plan |
| 2% | Semester 1Week 10 | **Task 5: Evaluation** Evaluate finished scale model of a residential backyard designEvaluate finished design, materials list and construction proposal |
| 3% | Semester 2Week 2–3 | **Task 10: Drafting exercises**Complete a range of theoretical and practical activities to develop experience in drafting: orthogonal, geometry; plan reading and scaling |
| 5% | Semester 2Week 4–5 | **Task 11: Integrated materials fabrication design project**Design a project that uses a combination of materials from the syllabus**OR**Complete a design for a personal project that links together skills learnt |
| 2% | Semester 1Week 15 | **Task 16: Evaluation**Construction of integrated materials fabrication design project |

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| --- | --- | --- | --- |
| **Assessment type and weighting** | **Assessment****weighting** | **Duration** | **Assessment task** |
| Production50% | 5% | Semester 1Week 6–9 | **Task 4:** Construct a model of a residential backyard project**OR**Complete construction of a personal project that links together skills learnt |
| 5**%** | Semester 1Week 10–15 | **Task 7: Building exercises**Brick paving and bricklaying* identify and apply OSH rules and regulations relating to the use of materials and processes
* theory worksheets
* calculate quantities
* site levelling
* mixing mortar
* construction of brick walls; rack and line blocks and corner
* cleaning up
* laying brick paving; running and stack bond patterns, and basket weave
 |
| 5% | Semester 1Week 10–15 | **Task 8: Construction exercises** Complete a range of practical and theoretical exercises incorporating a spectrum of construction materials, processes and techniques.* identify and apply OSH rules and regulations relating to the use of materials and processes
* framing in construction
* wall and floor tiling
* setting out, procedure and tool usage
* surface preparation for painting
* painting
* fasteners display board ­­
 |
| 5% | Semester 1Week 10–15 | **Task 9: Fabrication exercises – welding**Complete a series of practical exercises in the three types of welding: oxy, arc and MIG weldingPresent welds on a suitable display board |
| 10% | Semester 2Week 6–9 | **Task 12: Construction of integrated materials fabrication design project**Construct the design project combining different materials**OR**Complete construction of a personal project that links together skills learnt |

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| **Assessment type and weighting** | **Assessment****weighting** | **Duration** | **Assessment task** |
|  | 10% | Semester 2Week 9–15 | **Task 13: Building exercises**Brick paving and bricklaying* identify and apply OSH rules and regulations relating to the use of materials and processes
* surface preparation
* site levelling
* brick paving stretcher pattern
* laying and finishing paving
* mixing mortar
* calculate materials quantities
* straight line bricklaying
* cleaning up
 |
| 5% | Semester 2Week 9–15 | **Task 14: Construction exercises** Complete a range of practical and theoretical exercises incorporating a spectrum of construction materials, processes and techniques* identify and apply OSH rules and regulations relating to the use of materials and processes
* timber framing in construction
* different types of joining methods used in building and construction
* sheet metal work, including bracing and strapping
* non-licensed plumbing activities
* surface preparation for finishing
* apply a range of surface finishes
* wall and floor tiling
 |
| 5% | Semester 2Week 11–15 | **Task 15: Fabrication exercises – MIG welding*** identify and apply OSH rules and regulations relating to the use of materials and processes
* complete welding fabrication exercises from the following using light sheet metal and heavy plate/pipe

|  |  |  |
| --- | --- | --- |
| * MIG welding beads
 | * MIG butt weld
 | * MIG ‘T’ weld
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| **Assessment type and weighting** | **Assessment****weighting** | **Duration** | **Assessment task** |
| Response15% | 3% | Semester 1Week 6 | **Task 3: Safety in the workshop, rules and regulations**This task is compulsory and is to be completed prior to attempting any practical work.Activities:* watch safety video
* general safety aspects of workshop practice
* complete SmartMove General module
* complete Building and Construction SmartMove certificate
 |
| 5% | Semester 1Week 9–11 | **Task 6 Part A and Part B: Respond to environment and sustainability; structures and services**Present a report on two of the three following topics:* building insulation and its purpose
* the types of energy (electrical, heat, mechanical) used during construction
* recycling of building materials

**Structure and services** * two-dimensional forces on trusses, frames and structural components
* the provisions for the supply of:
* on-site gas, electric power, water, drainage and sewerage
 |
| 2% | Semester 2Week 15 | **Task 16: Evaluation of construction of Integrated materials fabrication design project** * evaluate the result of the project against design criteria using simple statements
 |
| 5% | Semester 2Week 14–15 | **Task 17: Assignment:** **Structures and services** Identify * correct building waste disposal
* water and sewerage treatment
* environmental impact of the disposal of waste, water and sewerage
* different structures, structural components, joints and trusses
* basic on-site water supply, drainage and sewerage provision
 |
| Externally set task | 15% | Semester 1Week 13 | All students enrolled in the Building and Construction General Year 12 course will complete the externally set task developed by the Authority. Schools are required to administer this task in Term 2 at a time prescribed by the Authority |
|  | **100%** |  |  |