# Assessment Mapping (for traditional units from old Training Packages)

*This document is used to demonstrate content validity of the assessment tool*

Table 1 Main details

| Details | Unique description |
| --- | --- |
| **Unit Code, name and release number** | MEM05005B - Carry out mechanical cutting (1) |
| **Skills Team** |  |
| **Region/Campus** |  |
| **SkillsPoint (owned by)** | Innovation Manufacturing Robotics and Science |

## Unit component mapping to assessment event/s

Table 2 Unit component mapping to assessment event/s

| Element number | Element name | Performance criteria number | Performance criteria description | Learning resources | Knowledge 1 of 3  Theory Assessment | Skills 2 of 3  Skills 3 of 3 |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Determine job requirements | 1.1 | Job requirements and specifications are determined from job sheets and/or instructions |  | Part 3 Q4 | AE\_Sk 2of3  Task 1 item 1,3  AE\_Sk 3of3  Task 1 item 1,3 |
|  |  | 1.2 | Appropriate method/machine is selected to meet specifications |  | Part 1 Q1,2  Part 3 Q1,4 | AE\_Sk 2of3  Task 1 item 3  AE\_Sk 3of3  Task 1 item 3 |
|  |  | 1.3 | Machine is loaded and adjusted for operation consistent with standard operating procedures |  | Part 1 Q5 | AE\_Sk 2of3  Task 1 item 6  AE\_Sk 3of3  Task 1 item 6 |
| 2 | Select/set up machine tooling | 2.1 | Tooling is selected to match job requirements |  | Part 1 Q3 | AE\_Sk 2of3  Task 1 item 3  AE\_Sk 3of3  Task 1 item 3 |
|  |  | 2.2 | Tooling is correctly installed using standard operating procedures |  |  | AE\_Sk 2of3  Task 1 item 6  AE\_Sk 3of3  Task 1 item 6 |
|  |  | 2.3 | Machine is set up and adjusted using standard operating procedures |  | Part 1 Q4,5  Part 2 Q6  Part 3 Q4 | AE\_Sk 2of3  Task 1 item 6,7  AE\_Sk 3of3  Task 1 item 6,7 |
| 3 | Operate mechanical cutting machine | 3.1 | Appropriate stops and guards are set and adjusted as required |  | Part 1 Q5 | AE\_Sk 2of3  Task 1 item 6,7  AE\_Sk 3of3  Task 1 item 6,7 |
|  |  | 3.2 | Material is secured and correctly positioned using measuring equipment as necessary |  |  | AE\_Sk 2of3  Task 1 item 6,7  AE\_Sk 3of3  Task 1 item 6,7 |
|  |  | 3.3 | Machine is started and stopped safely to standard operating procedures |  |  | AE\_Sk 2of3  Task 1 item 7  AE\_Sk 2of3  Task 1 item 7 |
|  |  | 3.4 | Machine is operated to cut/hole material to specifications using standard operating procedures |  |  | AE\_Sk 2of3  Task 1 item 6,7  AE\_Sk 3of3  Task 1 item 6,7 |
| 4 | Check material for conformance to specification | 4.1 | Material is checked against specification. Machine and/or tooling is adjusted as required and in process adjustments carried out as necessary |  |  | AE\_Sk 2of3  Task 1 item 7, 8  AE\_Sk 3of3  Task 1 item 7, 8 |
|  |  | 4.2 | Material is cut and/or holed to within workplace tolerances |  |  | AE\_Sk 2of3  Task 1 item 8,9  AE\_Sk 3of3  Task 1 item 8,9 |
|  |  | 4.3 | Material is used in most economical way |  |  | AE\_Sk 2of3  Task 1 item 9  AE\_Sk 3of3  Task 1 item 9 |
|  |  | 4.4 | Codes and standards are observed |  |  | AE\_Sk 2of3  Task 1 item 2,3,6,7,8,9,10  AE\_Sk 3of3  2,3,6,7,8,9,10 |

## Employability skills NOT explicit in the performance criteria

Table 3 Employability skills NOT explicit in the performance criteria

| Employability skills | Description | Learning resources | Insert name & type of event | Insert name & type of event | Insert name & type of event |
| --- | --- | --- | --- | --- | --- |
| This unit contains employability skills | | | | | |

## Required skills

Table 4 Required skills

| Required skills | Description | Learning resources | Knowledge 1 of 3  Theory Assessment | Skills Assessment 2 of 3  3 of 3 |
| --- | --- | --- | --- | --- |
|  | Look for evidence that confirms skills in: |  |  |  |
| RS1 | Loading and adjusting cutting machines |  |  | AE\_Sk 2of3  Task 1 item 6  AE\_Sk 3of3  Task 1 item 6 |
| RS2 | Selecting machines and tooling |  |  | AE\_Sk 2of3  Task 1 item 5,6  AE\_Sk 3of3  Task 1 item 5,6 |
| RS3 | Installing cutting tool |  |  | AE\_Sk 2of3  Task 1 item 6  AE\_Sk 3of3  Task 1 item 6 |
| RS4 | Setting up and adjusting cutting machine |  |  | AE\_Sk 2of3  Task 1 item 6,7  AE\_Sk 3of3  Task 1 item 6,7 |
| RS5 | Securing and correctly positioning materials |  |  | AE\_Sk 2of3  Task 1 item 6  AE\_Sk 3of3  Task 1 item 6 |
| RS6 | Cutting and holing materials |  |  | AE\_Sk 2of3  Task 1 item 7,8  AE\_Sk 3of3  Task 1 item 7,8 |
| RS7 | Applying relevant codes and standards |  |  | AE\_Sk 2of3  Task 1 item 2,3,6,7,8,9,10  AE\_Sk 3of3  Task 1 item 2,3,6,7,8,9,10 |
| RS8 | Reading and interpreting routine information on written job instructions, specifications and standard operating procedures |  |  | AE\_Sk 2of3  Task 1 item 2,3 AE\_Sk 3of3  Task 1 item 2,3 |
| RS9 | Following oral instruction |  |  | AE\_Sk 2of3  Task 1 item 1  AE\_Sk 3of3  Task 1 item 1 |
| RS10 | Measuring materials to specified workplace tolerances and within the machine range |  |  | AE\_Sk 2of3  Task 1 item 8  AE\_Sk 3of3  Task 1 item 8 |
| RS11 | Clarifying routine task-related information |  |  | AE\_Sk 2of3  Task 1 item 1  AE\_Sk 3of3  Task 1 item 1 |

## Required knowledge

Table 5 Required knowledge

| Required knowledge | Description | Learning resources | Knowledge 1 of 3  Theory Assessment | Skills 2 of 3  Skills 3 of 3 |
| --- | --- | --- | --- | --- |
|  | Look for evidence that confirms knowledge of: |  |  |  |
| RK1 | The characteristics of cutting methods and machines |  | Part 1 Q1,2  Part 2 Q1  Part 3 Q1 |  |
| RK2 | Effect of materials on the machine tooling, tooling defects and adjustments |  | Part 1 Q3,  Part 2 Q2,3 |  |
| RK3 | Effect of adjustments on the dimensions of the cut material |  | Part 1 Q4  Part 2 Q5,6 |  |
| RK4 | Applicable tolerances |  | Part 2 Q7  Part 3 Q4 |  |
| RK5 | Methods of marking out materials to ensure minimum wastage |  | Part 2 Q8  Part 3 Q2,3 |  |
| RK6 | Any applicable industry standards, national/Australian standards, NOHSC guides, State/Territory regulatory codes of practice/standard |  | Part 1 Q6,7,8,9 |  |
| RK7 | Use and application of personal protective equipment for mechanical cutting |  | Part 2 Q9  Part 3 Q8 |  |
| RK8 | Safe work practices and procedures |  | Part 1 Q9,10  Part 2 Q10,11  Part 3 Q5,6,7,8 |  |

## Critical aspects

Table 6 Critical aspects

| Critical aspects | Description | Learning resources | Insert name & type of event | Insert name & type of event | Insert name & type of event |
| --- | --- | --- | --- | --- | --- |
| CA1 | Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts. |  |  |  |  |