# 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** | MEM12023A - Perform engineering measurements (1) |
| **Skills Team** |  |
| **Region/Campus** |  |
| **SkillsPoint (owned by)** | Innovative Manufacturing, Robotics and Science (IMRS) |

*NOTES:*

* *Event columns can be added or deleted as required*
* *Rows for elements and performance criteria, etc. can be added or deleted as required*
* *Each component of the unit must be mapped to at least* ***one assessment criteria*** *or* ***question*** *in one or more assessment events*
* *Do NOT delete the section labelled Employability Skills. If the Employability Skills ARE EXPLICIT in the performance criteria, they do not need to be listed. However, if the Employability Skills ARE NOT incorporated in the performance criteria they must be listed and mapped.*
* *Dimensions of Competency must be considered when selecting assessment types to ensure that the range of tasks you have chosen cover the following:*
  + *Task Skills*
  + *Task Management Skills*
  + *Contingency Planning Skills*
  + *Job Role Environment Skills*

## 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 Assessment  1 of 2 | Skills  Assessment  2 of 2 |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Select appropriate device or equipment | 1.1 | Measurement requirements are determined from specifications | MEM05 Metal and Engineering Core Book V2 | Part 3 - Q5 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
|  |  | 1.2 | Appropriate device or equipment is selected according to standard operating procedures, to achieve required outcome | MEM05 Metal and Engineering Core Book V2 | Part 1 - Q3, 4, 7, 8  Part 2 - Q1  Part 3 - Q1, 2, 3, 4 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| 2 | Obtain measurements using a range of measuring devices | 2.1 | Correct and appropriate measuring technique is used | MEM05 Metal and Engineering Core Book V2 |  | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
|  |  | 2.2 | Measurements are accurately obtained | MEM05 Metal and Engineering Core Book V2 | Part 2 - Q3  Part 3 - Q 6, 7 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
|  |  | 2.3 | Dimensions are determined or verified using basic calculations, where required | MEM05 Metal and Engineering Core Book V2 | Part 3 - Q5, 8, 9, 10, 11 | Part 1: Task 2.1 |
| 3 | Maintain measuring devices | 3.1 | Routine care and storage of devices is undertaken to manufacturers' specifications or standard operating procedures | MEM05 Metal and Engineering Core Book V2 | Part 1 - Q1, 2, 5  Part 2 - Q2, 4, 5, 6, 7, 10, 11, 12  Part 3 - Q13 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
|  |  | 3.2 | Routine adjustments to devices are made and checked | MEM05 Metal and Engineering Core Book V2 | Part 3 - Q12 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| 4 | Communicate measurements as required | 4.1 | Measurements are accurately recorded, where required | MEM05 Metal and Engineering Core Book V2 | Part 3 - Q9 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b, 7 |
|  |  | 4.2 | Freehand sketch which depicts required information is prepared, as required | MEM05 Metal and Engineering Core Book V2 | Part 1 - Q 6  Part 2 - Q8, 9 | Part 1: Task 7 |

## Employability skills NOT explicit in the performance criteria

Table 3 Employability skills NOT explicit in the performance criteria

| Employability skills | Description | Learning resources | Knowledge Assessment  1 of 2 | Skills Assessment  2 of 2 |
| --- | --- | --- | --- | --- |
|  | This unit contains employability skills embedded in the performance criteria |  |  |  |

## Required skills

Table 4 Required skills

| Required skills | Description | Learning resources | Knowledge Assessment  1 of 2 | Skills Assessment  2 of 2 |
| --- | --- | --- | --- | --- |
|  | Look for evidence that confirms skills in: |  |  |  |
| RS1 | Selecting the appropriate measuring device for given measuring tasks |  |  | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| RS2 | Using appropriate measuring technique |  | Part 3 - Q 6, 7 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| RS3 | Reading all measurements taken accurately to the finest graduation of the selected measuring device |  | Part 3 - Q 6, 7 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| RS4 | Handling and storing measuring devices in accordance with manufacturers' specifications or standard operating procedures |  | Part 1 - Q 1, 2 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| RS5 | Verifying all measuring devices before use |  |  | Part 1: Task 1 |
| RS6 | Making, where appropriate, routine adjustments to measuring devices |  |  | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| RS7 | Reading, interpreting and following information on written job instructions, specifications, standard operating procedures, charts, lists, drawings and other applicable reference documents |  |  | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| RS8 | Planning and sequencing operations |  |  | Part 1: Tasks 2 - 6 |
| RS9 | Checking and clarifying task related information |  |  | Part 1: Tasks 2 - 6 |
| RS10 | Checking for conformance to specifications |  |  | Part 1: Tasks 2 - 6 |
| RS11 | Undertaking numerical operations involving addition, subtraction, multiplication, division, fractions and decimals within the scope of this unit |  |  | Part 1: Tasks 2 - 6 |
| RS12 | Preparing drawings as required |  |  | Part 1: Task 7 |

**Required knowledge**

Table 5 Required knowledge

| Required knowledge | Description | Learning resources | Knowledge Assessment  1 of 2 | Skills  Assessment  2 of 2 |
| --- | --- | --- | --- | --- |
|  | Look for evidence that confirms knowledge of: |  |  |  |
| RK1 | Correct application of a range of measuring devices |  | Part 1 - Q3, 7, 8  Part 3 – Q3, 4 |  |
| RK2 | Correct and appropriate measuring technique for a range of measuring devices |  | Part 1 - Q8  Part 3 – Q16 | Part 1: Tasks 2b, 3b, 4b, 5b, 6b |
| RK3 | Addition, subtraction, multiplication, division, fractions, decimals to the scope required by this unit |  | Part 3 - Q8, 9, 10, 11 | Part 1: Task 2.1 |
| RK4 | Procedures for handling and storing a range of measuring devices |  | Part 1 - Q1, 2  Part 2 - Q2, 4, 5, 7, 10, 11, 12 |  |
| RK5 | Procedures for adjusting and zeroing a range of measuring devices |  | Part 3 Q12,13 | Part 1: Task 1 |
| RK6 | Methods of communicating measurements by drawings, as required |  | Part 2 - Q8, 9  Part3 - Q9 | Part 1: Task 7 |
| RK7 | Safe work practices and procedures |  | Part 3 – Q14, 15 |  |

## Critical aspects

## Table 6 Critical aspects

| Critical aspects | Description | Learning resources | Knowledge Assessment  1 of 2 | Skills Assessment  2 of 2 |
| --- | --- | --- | --- | --- |
| 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. |  |  |  |