



Australian Government

**Assessment Requirements for MSFFM3045
Set up, operate and maintain computer
numerically controlled (CNC) machining
and processing centres**

Assessment Requirements for MSFFM3045 Set up, operate and maintain computer numerically controlled (CNC) machining and processing centres

Modification History

Release 1. Changes to code, application, elements, performance criteria, assessment requirements. Foundation skills added. Range of conditions removed. Assessment requirements changed.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- set up, operate and complete operator maintenance on at least 1 CNC machining and processing centre to complete detailed profiling. This must include at least 3 different shapes and, for each of these shapes, using each of the following methods:
 - development and application of sub-program
 - development and application of parametric program
 - application of CAD/CAM functions.
 -

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace procedures for
 - work health and safety
 - quality assurance and tolerance levels
 - reporting of machinery faults and material defects
- uses of CNC machining and processing centres:
 - three axis machining centres
 - multi-tasking machining centres
 - flat-bed routers and mortice
- tools and equipment associated with CNC centres:
 - stand-alone or integral computing systems
 - machine-specific tools
- personal protective equipment (PPE) required for CNC machining and processing
- CNC practices and techniques, including workflow process
- characteristics of materials to be machined and processed and uses of products produced:
 - materials
 - solid timber

- manufactured board
- products:
 - vacuum formed doors
 - widening joints
 - framed construction
 - drawers and laminating veneers.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources required for performance evidence, including:
 - work documentation
 - unprocessed materials for processing
 - CNC controlled equipment
 - PPE
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>