



Australian Government

Assessment Requirements for MSFFDM4005 Design, construct and test jigs

Release: 1

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Modification History

Release 1. Unit code and Application changed. Element and Performance Criteria changed. Range of Conditions removed and relevant content moved to Assessment Requirements. Assessment Requirements changed to remove duplication with Performance Criteria. Supersedes and is not equivalent to MSFDN4004 Design, construct and test jigs and MSFFDT4015 Produce templates and jigs for custom-made furniture.

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:

- successfully design, construct and test jigs that operate within acceptable production tolerances for two projects, including one moving jig.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- how to interpret detailed product specifications and technical drawings
- characteristics, uses and limitations of materials used for jig construction
- construction techniques relevant to the chosen jig material
- processes for testing jig design
- machine technical specifications, including the acceptable criteria for related jigs
- mathematical procedures for taking measurements and making calculations for jig design.

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, including:
 - product specifications and drawings
 - drawing materials or equipment for jig design
 - jig construction materials
 - construction machinery, equipment and hand tools.

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>