



Australian Government

MSFFDM4015 Produce patterns and templates

Release: 1

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Modification History

Release 1. Unit code and Application changed. Performance Criteria simplified and changed to active voice. Range of Conditions removed with relevant information moved to assessment requirements. Assessment Requirements changed to remove duplication with Performance Criteria. Supersedes and is equivalent to MSFDN4003 Produce patterns and templates.

Application

This unit describes the skills and knowledge required to plan process and plot dimensions to develop patterns and/or templates for production processes using both hand tools and computer-assisted production.

This unit applies to individuals working in design and manufacturing roles who produce patterns and templates, either alone or as part of an internal or external team.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Design documentation and machine interface

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for and dimension the task	1.1 Identify and follow work health and safety requirements 1.2 Correctly interpret customer orders to establish required sizes of finished products 1.3 Check size requirements in relation to production process and finishing capacity of workplace
2. Plan process	2.1 Identify material for pattern or template for approximate size and characteristics 2.2 Identify, locate and assemble required instruments and equipment 2.3 Correctly interpret drawings and related specifications 2.4 Check procedures for using pattern development instruments and tools and prepare equipment for use

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
3. Plot dimensions	3.1 Use equipment and tools in accordance with procedures 3.2 Measure, explode and plot each dimension maintaining appropriate angles, arcs and curves 3.3 Use visual inspection and measurements to compare pattern dimensions and shapes with drawings and specifications
4. Complete pattern or template	4.1 Complete pattern or template ensuring that pattern indicates completion date and original drawing details 4.2 Obtain required approvals of pattern or template 4.3 Mark plans with notations for workplace requirements, including authorship, process or customer requirements, authorisation and any review dates 4.4 Copy and file plans in accordance with workplace policies and procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Numeracy skills to interpret technical information and perform calculations including measurements.
- Reading skills to interpret job requirements.
- Writing skills to document requirements.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSFDN4003 Produce patterns and templates.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSFFDM4015 Produce patterns and templates

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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:

- interpret drawings and select appropriate mediums and materials to produce a minimum of three patterns or templates which individually or cumulatively make use of three different types of materials, and
 - produce patterns and templates by hand and by computer.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types, characteristics, uses and limitations of pattern and template materials
- pattern and template production:
 - procedures and processes
 - techniques
- softwares suitable for production of patterns and templates, and their applications
- operating requirements of equipment and work systems in own work area
- regulatory requirements, recognised standards and codes, and industry practices.

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:
 - drawings
 - specifications
 - information on production/fabrication process
 - computer equipment and software.

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

Links

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