



Australian Government

MSTFD6007 Implement specialised patternmaking technologies

Release: 1

MSTFD6007 Implement specialised patternmaking technologies

Modification History

Release 1. Supersedes and is equivalent to LMTFD6007B Implement specialised pattern-making technologies

Application

This unit of competency covers the skills and knowledge required to analyse and implement specialised patternmaking technologies.

The unit of competency applies to analysing workplace requirements to introduce or upgrade specialised patternmaking technologies, assess and implement appropriate technologies into the workplace, and manage the change process associated with the implementation.

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Fashion design and technology

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Determine job requirements

- 1.1 Follow standard operating procedures (SOPs)
- 1.2 Comply with work health and safety (WHS) requirements at all times
- 1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs
- 1.4 Identify job requirements from specifications, drawings,

			job sheets or work instructions
2	Prepare to implement specialised patternmaking technologies	2.1	Analyse and assess patternmaking technologies to prepare for future requirements
		2.2	Determine staff skills for implementation of new technologies
		2.3	Identify risks and obstacles relating to the proposed change
		2.4	Identify changes to current patternmaking principles and practices
		2.5	Confirm suppliers of patternmaking technologies and identify the initial and ongoing training and support they will provide
		2.6	Develop a patternmaking technology implementation plan, including objectives, timeframes, training and budget
3	Implement patternmaking technologies	3.1	Implement patternmaking technologies and adjust workplace practices according to implementation plan
		3.2	Delegate responsibilities and provide learning and development opportunities according to implementation plan
		3.3	Develop specifications and workplace practices for block development, patternmaking and pattern grading using the new technology
		3.4	Make support available to the workplace affected by implementation of the patternmaking technology
		3.5	Ensure WHS is observed during implementation of new technologies
4	Assess and finalise implementation process	4.1	Monitor and supervise implementation of plan to ensure production and quality meet required standards of compliance
		4.2	Identify and rectify any production problems, faults and

quality issues, and make changes and adjustments to procedures, where required

- 4.3 Maintain records and prepare reports, where necessary
- 4.4 Document all processes and technology outcomes and store according to workplace practices

Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Workplace procedures include one or more of the following:

- requirements prescribed by legislation, awards, agreements and conditions of employment
- SOPs
- work instructions
- PPE
- oral, written and visual communication
- quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling
- WHS requirements

Australian Standards include:

- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

Assess patternmaking technologies includes one or more of the following:

- identifying and assessing national and international pattern-making technologies
- analysing current workplace applications to assess efficiency and appropriateness of technologies

- conducting software audits
- assessing opportunities for upgrading current technologies
- identifying future and unmet requirements for pattern-making technologies

Patternmaking technologies includes one or more of the following:

- computer-aided design (CAD) systems
- body scanners
- specification and technical drawing software
- grading and size table development software
- 3-D avatars and fitment software
- Icon technology

Software audits include one or more of the following:

- key audits
- systems management audits

New technologies include one or more of the following:

- technology which is new to the workplace
- new aspects of currently used technology (i.e. upgraded technologies)
- hardware or software components

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTFD6007B Implement specialised pattern-making technologies

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>

Assessment Requirements for MSTFD6007 Implement specialised patternmaking technologies

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria, and include:

- reading and following work instructions, standard operating procedures (SOPs) and safe work practices
- applying relevant standards
- assessing patternmaking technologies, workplace requirements for new technologies, staff training requirements and risks, and obstacles and challenges relating to the proposed change
- developing a patternmaking technology implementation plan, including objectives, timeframes, training and budget
- managing change and implementation of new patternmaking technologies, and monitoring process to achieve quality and production output requirements, on at least two (2) occasions
- ensuring work health and safety (WHS) practices in work operations and providing support to the workplace affected by implementation of the patternmaking technology
- rectifying any production problems, faults and quality issues and making changes and adjustments to procedures, where required
- maintaining records and preparing reports, where necessary
- document all processes and technology outcomes and storing according to workplace practices.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- change management
- Australian size Standards
- workplace and customer size charts
- patternmaking and the development of a pattern
- cost-efficiency in patternmaking
- patternmaking principles and methodologies
- patternmaking technologies, such as:
 - CAD systems

- body scanners
- specification and technical drawing software
- grading and size table development software
- 3-D avatars and fitment software
- icon technology
- grading of patterns
- block construction
- new patternmaking technologies
- relevant work health and safety (WHS) legislation and codes of practice
- problem solving
- quality practices
- workplace procedures
- recording and reporting practices.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator
 - have vocational competency in implementing specialised pattern making technologies, at least to the level being assessed, with relevant industry knowledge and experience.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.

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