



Australian Government

MSTFD5018 Determine and specify advanced construction processes

Release: 1

MSTFD5018 Determine and specify advanced construction processes

Modification History

Release 1. Supersedes and is equivalent to LMTFD5018B Determine and specify advanced construction processes

Application

This unit of competency covers the skills and knowledge required to determine and specify advanced construction processes to achieve desired design details.

The unit of competency applies to design details which achieve specific effects in the production of garments to give a garment a more unique, individual appearance. It also applies to producing samples and developing construction specifications and standard operating procedures (SOPs) to guide the production of garments which incorporate design detail.

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	Produce design details	2.1	Determine design details and their position on the garment
		2.2	Prepare artwork/drawings/specifications and any additional documentation in appropriate format
		2.3	Plan advanced garment construction processes and determine advanced machine or equipment requirements
		2.4	Select appropriate fabric, components and equipment and use advanced construction processes to produce sample design detail
3	Develop advanced construction process plan	3.1	Evaluate sample to assess results and modify sample and process plan, as required
		3.2	Consult with production team to determine requirements and assign tasks according to available expertise and production requirements
		3.3	Communicate with team members to clarify advanced construction process plan
		3.4	Analyse design specification sheet, drawings, samples and patterns with team
		3.5	Apply quality criteria and copyright/intellectual property (IP) obligations
4	Confirm and document advanced construction process	4.1	Establish relevant technical, monitoring and reporting procedures
		4.2	Prepare reports and maintain records, as required
		4.3	File and store records according to work procedures

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
Design details to achieve specific effects include one or more of the following:	• printing • dyeing • fraying • cutting fabric on bias • painting • beading • embroidery
Advanced garment construction processes include three or more of the	• cut-in and applied pockets and tabs • contoured and layered insets • intricate closures and seaming • requirements of unique fabrics and components

following:

- quilting
- drawn thread work
- applique
- rouleau

**Quality criteria
include one or more
of the following:**

- proportion
- perspective
- symmetry and balance
- detailing
- neatness

**Machines/equipment
include one or more
of the following:**

- three, four or five thread overlocker
- zigzag sewing machine
- blind hemmers
- buttonholers
- button sewers
- pocket and collaring machines
- elasticators and binders
- printing and stencilling equipment
- hoops
- hand sewing and machine accessories and attachments

**Advanced
construction process
plan includes one or
more of the
following:**

- SOPs
- constraints
- preferred processes
- designs
- advanced construction process
- roles
- schedule/timeframe

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTFD5018B Determine and specify advanced construction processes

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 MSTFD5018 Determine and specify advanced construction processes

Modification History

Release 1. Supersedes and is equivalent to LMTFD5018B Determine and specify advanced construction processes

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
- developing specifications for at least two (2) design details and the process to achieve them, ensuring copyright and quality criteria are applied
- using required equipment to demonstrate at least three (3) advanced garment construction processes
- developing advanced construction specifications and process plan, including details of advanced machines or equipment
- communicating effectively with construction team to finalise plans and assign tasks for at least two (2) garments with special design effects and advanced construction processes
- documenting processes and maintaining accurate records.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- relevant Australian Standards
- design details to achieve special effects, such as:
 - printing
 - dyeing
 - fraying
 - cutting fabric on bias
 - painting
 - beading
 - embroidery
- garment construction
- advanced construction processes, such as:
 - cut-in and applied pockets and tabs
 - contoured and layered insets

- intricate closures and seaming
- requirements of unique fabrics and components
- quilting
- drawn thread work
- applique
- rouleau
- characteristics of garment fabrics, components and design details
- advanced construction tools and equipment:
 - plain lockstitch sewing machine
 - three, four or five thread overlocker
 - zigzag sewing machine
 - blind hemmers
 - buttonholers
 - button sewers
 - pocket and collaring machines
 - elasticators and binders
 - printing and stencilling equipment
 - hoops
 - hand sewing and machine accessories and attachments
- communication skills and processes
- copyright obligations and codes of practice
- quality criteria:
 - proportion
 - perspective
 - symmetry and balance
 - detailing
 - neatness
- 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 advanced fashion construction processes 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.

Links

Companion Volume implementation guides are found in VETNet -

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