



Australian Government

MSTFD5022 Develop digital costing markers

Release: 1

MSTFD5022 Develop digital costing markers

Modification History

Release 1. New unit

Application

This unit of competency covers the skills and knowledge required to use digital technologies for estimating garment yields for costing. It involves translating graded pattern pieces onto a cutting lay plan, to minimise fabric waste and optimise cutting accuracy.

The unit of competency applies to the use of specialised electronic programs and computing equipment to digitise patterns.

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

MSTFD5021 Conduct digital patternmaking and grading

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

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|-----|---|
| 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 |

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|---|------------------------------------|-----|---|
| | | 1.4 | Determine job requirements from specifications, job sheets or work instructions |
| 2 | Determine yield from fabric | 2.1 | Examine measurements and identify marker requirements from specification |
| | | 2.2 | Determine the impact of fabric features and specifications on marker |
| | | 2.3 | Identify pattern width and size scale and estimate material utilisation |
| | | 2.4 | Select and prepare suitable software programs and computing equipment |
| | | 2.5 | Access pattern/style libraries and enter fabric and sizing information |
| | | 2.6 | Generate an order for pattern/style marker |
| | | 2.7 | Determine optimal layout configuration to minimise fabric waste |
| | | 2.8 | Ensure lay requirements meet design specifications |
| | | 2.9 | Confirm garment yield from fabric |
| 3 | Prepare costing markers | 3.1 | Generate digital costing marker |
| | | 3.2 | Determine preliminary costing and assess commercial viability of production |
| | | 3.3 | Identify need for and make adjustments to improve viability |
| | | 3.4 | Create marker to maximise utilisation |
| | | 3.5 | Determine piece count, marker length and fabric utilisation |
| | | 3.6 | Ensure measurements and requested specifications are accurately documented |
| | | 3.7 | Print scaled marker and assess against design and production specifications |

4	Prepare marker for use	4.1	Prepare marker for use and determine distribution or storage requirements
		4.2	Prepare marker for email distribution
		4.3	Store marker according to workplace procedures
		4.4	Print scaled marker and prepare for processing

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 practices

Australian Standards include:

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

Markers include one of more

- costing yield markers

of the following:

- sample marker
- volume markers

Requested specifications include the following:

- style number
- required sizes
- bundle codes
- piece descriptions
- spreading instructions

Fabric specifications include the following:

- types of fabrics
- width and length of fabric
- measurements
- pattern/style

Unit Mapping Information

Release 1. New unit

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 MSTFD5022 Develop digital costing markers

Modification History

Release 1. New unit

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of 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
- identifying marker requirements
- selecting appropriate software programs
- accessing pattern/style libraries
- preparing order for pattern/style marker
- using digital techniques to determine and modify layout
- determining optimal fabric yield
- using digital techniques to cost fabric
- producing costing markers for at least two (2) complete set of graded patterns
- checking outputs against specifications of brief
- assessing commercial viability of patterns
- storing marker according to workplace procedures
- printing scaled marker and preparing for processing.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of 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
- identifying marker requirements
- selecting appropriate software programs
- accessing pattern/style libraries
- preparing order for pattern/style marker
- using digital techniques to determine and modify layout
- determining optimal fabric yield
- using digital techniques to cost fabric
- producing costing markers for at least two (2) complete set of graded patterns

- checking outputs against specifications of brief
- assessing commercial viability of patterns
- storing marker according to workplace procedures
- printing scaled marker and preparing for processing.

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 electronic fashion design and costing, 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

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