



Australian Government

MSTFD5021 Conduct digital patternmaking and grading

Release: 1

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Modification History

Release 1. New unit

Application

This unit of competency covers the skills and knowledge required to use digital technologies to produce patterns and conduct grading for fashion designs.

The unit of competency applies to the use of specialised electronic programs and computing equipment to digitise patterns and access existing pattern block libraries to create and grade pattern styles for a set size range.

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 standard SOPs
		1.4	Determine job requirements from specifications, job sheets or work instructions

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| 2 | Prepare to use electronic design tools | 2.1 | Interpret measurements and pattern requirements from technical drawings and specifications sheets |
| | | 2.2 | Identify garment factors that need to be considered |
| | | 2.3 | Select and prepare suitable software programs and computing equipment |
| | | 2.4 | Access and prepare digital working space |
| 3 | Digitise and modify patterns | 3.1 | Input manual pattern into program |
| | | 3.2 | Prepare final pattern pieces for grading and marking |
| | | 3.3 | Print pattern and assess against design and production specifications |
| 4 | Access and modify library patterns | 4.1 | Access pattern block from library |
| | | 4.2 | Modify patterns to create design features |
| | | 4.3 | Produce style from block to meet design requirements |
| | | 4.4 | Print pattern and assess against design and production specifications |
| 5 | Grade patterns using digital techniques | 5.1 | Grade pattern according to sizing system for identified target group |
| | | 5.2 | Check all pattern points in preparation for grading |
| | | 5.3 | Grade block to meet size specifications requirements |
| | | 5.4 | Use block to make pattern and grade |
| 6 | Check and finalise pattern | 6.1 | Produce graded pattern |
| | | 6.2 | Assess accuracy and completeness |
| | | 6.3 | Make adjustments or improvements as required |

6.4 Create final products and protect, organise and store them 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 practices

Australian Standards include:

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

Specifications include one of more of the following:

- type of fabric
- width and length of fabric
- size and garment measurements
- pattern details with specific measurements for proportion guidelines
- seam allowance for seams, waist, pocket and hem
- design and make instructions
- base size and size range

- clear, detailed technical drawings

Input manual pattern into program includes the following:

- creating straight and curved seams
- creating extensions for button fastenings
- manipulating darts and edge pivoting to create fullness
- adding simple pleats, tucks and gathers
- creating simple collars
- adding seam and hem allowances to all pattern pieces

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>