



Australian Government

MSTTD5009 Produce printed designs on woven and non-woven substrates

Release: 1

MSTTD5009 Produce printed designs on woven and non-woven substrates

Modification History

Release 1. Supersedes and is equivalent to LMTTD5011A Produce printed designs on woven and non-woven substrates

Application

This unit of competency covers the skills and knowledge required to apply screen printing techniques to produce designs on woven and non-woven substrates.

The unit of competency applies to the use of stencil, or silk-screen printing techniques to produce designs and artworks for woven and non-woven substrates and textiles, to be used for garments, textile products or accessories. Screen printing involves the use of manual techniques, tools and equipment.

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

Textile design and development

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

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|---|--|-----|---|
| | | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions |
| 2 | Prepare to print designs | 2.1 | Analyse design specifications and discuss with appropriate personnel to confirm production requirements |
| | | 2.2 | Identify desired effects of screen printing and select appropriate printing technique to achieve required outcome |
| | | 2.3 | Select woven and non-woven substrates and quantities according to design requirements |
| | | 2.4 | Select stencil techniques, stencil types, masters, screen types, meshes and medium according to requirements of printing technique and design |
| 3 | Apply screen printing procedure | 3.1 | Set up workstation, tools and equipment according to specifications for work |
| | | 3.2 | Check woven or non-woven substrates to be printed against quality standards |
| | | 3.3 | Prepare stencil masters, meshes and screens for printing according to requirements for selected printing technique |
| | | 3.4 | Apply screen printing techniques to meet design specifications for sample and according to workplace procedures |
| | | 3.5 | Finish screen print and complete housekeeping |
| 4 | Check and finalise printing | 4.1 | Check completed print meets design specifications and quality standards |
| | | 4.2 | Identify printing faults and production problems, and determine causes |
| | | 4.3 | Determine and apply necessary modifications to printing techniques, processes or materials |
| | | 4.4 | Check and confirm outcomes with appropriate personnel |

4.5 Complete required documentation

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

Appropriate personnel include one or more of the following:

- trainers
- colleagues
- mentors
- designers
- members of the design team

Printing techniques include one or more of the following:

- registered techniques:
 - tabs
 - multi-coloured
 - print rail
 - registration lays

- placement printing
- flatbed repeat printing
- off-contact
- wet-on-wet
- flood coat
- dry pull

Stencil types include one or more of the following:

- basic stencils
- photosensitive stencils
- hand cut and hand drawn stencils
- digitally-generated stencils
- autographic

Screen types include one or more of the following:

- timber, steel and aluminium framed
- butt, mitre, nailed, glued, screwed and welded
- rectangle, rotary, hat and flat bed

Meshes include one or more of the following:

- mesh types:
 - material
 - nylon
 - polyester
 - metal
- colour:
 - white
 - yellow
 - red
- size
- mono or multi-filament

Screen preparation includes one or more of the following:

- reclaim
- de-grease
- wash and dry
- apply emulsion
- attach master and expose to light source

Finish includes one or more of the following:

- touch up and tape, as required
- wash image clean and dry

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

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