



Australian Government

MSTTD4002 Prepare stencils and screens for textile printing

Release: 1

MSTTD4002 Prepare stencils and screens for textile printing

Modification History

Release 1. Supersedes and is equivalent to LMTTD4013A Prepare stencils and screens for textile printing

Application

This unit of competency covers the skills and knowledge required to prepare screen print design samples for textiles.

The unit of competency applies to the use of stencil, or silk-screen printing techniques to produce designs and artwork for textiles to be used for garments, textile products, furnishing fabrics or accessories or public art commissions.

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 prepare stencils and screens | 2.1 | Analyse design specifications and confirm stencil requirements with appropriate personnel |
| | | 2.2 | Set up workstation, tools and equipment according to specifications and workplace procedures |
| | | 2.3 | Identify desired effects of screen printing and select appropriate conversion technique to achieve required design outcome |
| | | 2.4 | Prepare and label layouts and select media to prepare stencils |
| | | 2.5 | Complete stencils and check against design |
| 3 | Prepare screens | 3.1 | Select screen types and mesh for appropriate substrates |
| | | 3.2 | Prepare screens for stencil process and check against quality standards |
| | | 3.3 | Expose stencil masters according to industry specifications |
| | | 3.4 | Develop screen images, dry and finish |
| | | 3.5 | Apply screen preparation according to workplace procedures |
| 4 | Test screens and stencil quality | 4.1 | Print strike off and check against design specifications to ensure quality standards are met |
| | | 4.2 | Identify screen and stencil faults and determine causes |
| | | 4.3 | Apply modifications to screens, as required, using appropriate techniques, processes or materials |
| | | 4.4 | Complete screens and prepare for production processes |
| | | 4.5 | Examine outcomes and check against specifications with appropriate personnel |

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

Conversion techniques include one or more of the following:

- basic stencils
- hand cut and hand drawn stencils
- photosensitive stencils
- autographic
- digitally generated stencils
- multi-coloured separations

Finish includes one or more of the following:

- touch up and tape, as required
- wash image clean and dry
- check for pinholes
- clean wash out of image

Tools and equipment include one or more of the following:

- rulers and tape measures
- light boxes
- graph paper
- photocopier
- overhead projector
- photocopier
- computer equipment
- computer-aided design (CAD) software
- tables

Screen and stencil and production faults include one or more of the following:

- uneven screen coating
- incorrectly stretched screen mesh
- poorly registered artwork/separations
- inaccurate repeat measurements
- incorrect exposure time used
- wet coating trough causing pinholes
- warped screen frames
- insufficient print paste used
- off printing
- poorly developed image
- poor quality colour separations
- stencil opacity insufficient

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTD4013A Prepare stencils and screens for textile printing

Links

Companion Volume implementation guides are found in VETNet -

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