Australian Government

MSTTD4005 Produce screen printed textiles

Release: 1

MSTTD4005 Produce screen printed textiles

Modification History

Release 1. Supersedes and is equivalent to LMTTD4005A Produce screen printed textiles

Application

This unit of competency covers the skills and knowledge required to apply screen printing techniques to produce screen print designs on textiles.

The unit of competency applies to the use of stencil, or silk-screen printing techniques to produce designs and artworks 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
	1.4 Identify job requirements from specifications, drawings,

			job sheets or work instructions
2	**Prepare to screen print textiles**	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 design outcome
		2.3	Select textile 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, substrate and design
3	**Apply screen printing procedure**	3.1	Set up workstation, tools and equipment according to specifications for work
		3.2	Prepare substrates and check against quality standards
		3.3	Prepare stencil masters, meshes and screens for printing according to requirements for selected printing technique
		3.4	Prepare printing set up
		3.5	Apply screen printing techniques to meet design specifications for sample and according to workplace procedures
4	**Produce textile printed sample**	4.1	Check strike off against design specifications to ensure quality standards are met
		4.2	Identify printing faults and production problems and determine causes
		4.3	Analyse printing process, technique and medium used to determine necessary modifications to printing techniques, processes or materials
		4.4	Print sample

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4.5   Finish screen print and complete housekeeping

4.6   Examine outcomes with appropriate personnel and discuss and document possible modifications to design

4.7   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
Stencil types include one or	basic stencils

more of the following:	• hand cut and hand drawn stencils
	• photosensitive stencils
	• autographic
	• digitally generated stencils

Meshes include one or more of the following:	• mesh types:
	• material
	• nylon
	• polyester
	• metal
	• colour:
	• white
	• yellow
	• red
	• size
	• mono or multi-filament

Screen printing tools and equipment include three or more of the following:	• squeegees
	• blocks
	• lino
	• brushes
	• knives
	• bucket, sink or container
	• mixers
	• rulers and tape measures
	• screen-cleaning equipment and chemicals
	• vacuum boards
	• carousel
	• printing tables with registration systems
	• exposure unit
	• scales high pressure hose
	• screen coaters
	• fans
	• blow dryers
	• light box
	• slide projector
	• overhead projector
	• photocopier
	• computer equipment
	• computer-aided design (CAD) software

| **Printing problems and production faults include two or more of the following:** | uneven screen coating incorrectly stretched screen mesh poorly registered print inaccurate repeat measurements poor squeegee action insufficient print paste used off printing poor preparation of substrates inappropriate fixing of dyes and pigments poorly exposed screen poor quality colour separations |

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