



Australian Government

ICPSCP2700 Manually prepare and produce screen prints

Release: 1

ICPSCP2700 Manually prepare and produce screen prints

Modification History

Release	Comments
Release 1	This version first released with ICP Printing and Graphic Arts Training Package Version 4.0.

Application

This unit describes the skills and knowledge required to manually prepare and produce screen prints using manual screening techniques for long print runs that involve a production process.

It applies to individuals working in the printing and graphic arts industry under direct supervision and performing mainly routine tasks.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Screen printing

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for job	1.1 Use material safety data sheets (MSDS) to identify safe chemical handling procedures 1.2 Check substrate for conformance to job specifications and report or rectify irregularities 1.3 Check ink for conformance to job specifications 1.4 Check stencil for conformance to job specifications 1.5 Adjust substrate position and stencil registration 1.6 Apply ink to screen in quantity required for screen size
2. Prepare for production run	2.1 Run off proof print and check for quality and other technical requirements according to job specifications, and make adjustments

ELEMENT	PERFORMANCE CRITERIA
	as required 2.2 Seek approval from designated personnel to commence production 2.3 Set up belt speed and energy and adjust printing speeds according to job requirements
3. Run job and monitor print quality	3.1 Operate equipment to produce screen print according to job specifications and adjust production speed as required 3.2 Evaluate print quality throughout production run and adjust as required 3.3 Monitor and adjust curing and drying according to manufacturer specifications 3.4 Identify and report problems in machine operation according to enterprise procedures
4. Stack production output	4.1 Confirm drying and curing of output prior to stacking 4.2 Check job status and progress against job specifications and make adjustments as required
5. Conduct shutdown	5.1 Transfer material to required destination 5.2 Remove and clean excess ink, screens, squeegees and flood coaters according to work health and safety (WHS) requirements and manufacturer specifications 5.3 Remove solid and liquid waste from operating area and recycle and dispose of, as required, according to regulatory requirements and enterprise procedures 5.4 Clean equipment and surrounding areas according to manufacturer specifications and enterprise procedures 5.5 Identify, store and maintain tools and equipment according to manufacturer specifications and enterprise procedures 5.6 Apply correct procedure for dealing with spilt chemicals according to WHS requirements

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Description
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Writing	• Completes required details accurately using enterprise specific factual information
Numeracy	• Identifies numerical information and makes basic calculations to adjust production processes
Self-management	• Takes personal responsibility for adherence to regulatory and WHS requirements • Complies with enterprise procedures relevant to own role
Teamwork	• Contributes to specific activities requiring joint responsibility and accountability
Planning and organising	• Follows clearly defined instructions and sequencing and monitors own progress for the task • Takes responsibility for routine low-impact decisions within familiar situations
Problem solving	• Responds to predictable problems and implements standard or logical solutions
Technology	• Identifies the purpose and some specific functions of common digital tools used in work contexts

Unit Mapping Information

Supersedes and is equivalent to ICPSCP270 Manually prepare and produce screen prints.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>

Assessment Requirements for ICPSCP2700 Manually prepare and produce screen prints

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- set up screen printing machinery and produce at least two print jobs on different substrates, using fundamental manual screening.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- WHS risks and requirements for:
 - setting up and operating screen printing machinery
 - producing a manual print
 - operating drying or curing systems
 - handling and disposing waste, liquids and other materials
- material safety data sheets (MSDS) and the information they contain
- necessity of checking the substrate for conformance to job specifications
- action required if the ink did not comply with job specifications
- proof quality and technical requirements, including:
 - colour and strength
 - registration and clarity
 - adhesion
 - gloss level
 - drying or curing
 - artwork detail
- compliance checks made with the stencil
- limitations that arise when setting the substrate position
- result if too much ink is applied to the screen
- items to check on the printed sheet when the proof print has been run off

- factors determining the drying or curing system used for the job
- sources of product and machine specifications
- result that would occur if the belt speed was too high
- reasons why it is required to obtain final approval before commencing the production run
- aspects of the print evaluated during printing
- reasons for making ink alterations during the run
- steps taken with the workplace documentation once the print run is completed
- maintenance to carry out on machine and faulty equipment reporting procedure
- steps taken to determine whether a print is dried or cured prior to stacking
- result of stacking while the ink film is still wet
- actions required if problems occur with the job
- method for identifying the job's destination when the run has been completed
- cleaning procedures for screens, equipment and surrounding areas, and the impact if they are not followed
- waste disposal procedures for liquids and other materials, and impact if not followed
- manufacturer manuals, enterprise procedures and work health and safety documentation, including their location and purpose.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the screen printing field of work and include access to:

- cleaning chemicals
- manual screen printing machines.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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