



Australian Government

ICPSCP2730 Semi-automatically produce basic screen prints

Release: 1

ICPSCP2730 Semi-automatically produce basic 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 safely produce one or two colour semi-automatic screen prints.

It applies to individuals working under direct supervision in the printing and graphic arts industry. They perform mainly routine tasks such as monitoring, adjusting and cleaning equipment, selecting products and ensuring set processes are followed in the use of a semi-automatic printing machine.

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 Check substrate against job specifications and report and rectify any irregularities or inconsistencies 1.2 Adjust substrate position and stencil registration 1.3 Apply ink to screen in quantity required for screen size 1.4 Mix colour and ink and check against job specifications
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 as required 2.2 Seek approval to commence production from designated

ELEMENT	PERFORMANCE CRITERIA
	personnel 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. Shut down machine	5.1 Remove and clean excess ink, screens, squeegees and flood coaters according to work health and safety (WHS) requirements and manufacturer specifications 5.2 Remove solid and liquid waste from operating area and recycle and dispose of, as required, according to regulatory requirements and enterprise procedures 5.3 Clean equipment and surrounding areas according to manufacturer specifications and enterprise procedures

Foundation Skills

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

Skill	Description
Reading	Identifies process from enterprise procedures, manufacturers and suppliers
Numeracy	Uses simple mathematical calculations to determine curing and drying times, required supplies and optimum belt speeds
Self-management	Takes personal responsibility for adherence to regulatory

	- requirements with specific reference to safety - 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 specific functions of some common digital tools used in work contexts

Unit Mapping Information

Supersedes and is equivalent to ICPSCP273 Semi-automatically produce basic 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 ICPSCP2730 Semi-automatically produce basic 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:

- produce two different one or two colour print runs, using a semi-automatic machine
- demonstrate use of control, monitoring and data entry systems.

In the course of the above the candidate must:

- operate production process in association with fellow workers and according to enterprise procedures and planned daily schedule
- follow work health and safety (WHS) requirements, manufacturer specifications and enterprise procedures
- anticipate production difficulties and take preventive action to prevent occurrence.

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:
 - operating a semi-automatic printing machine
 - cleaning and screen removal
 - waste disposal
- the required substrate, finished size, length of run and order of colours from the job specifications
- the required placement of image on the sheet and the significance of substrate guides or lays in preparation for printing
- features of the ink selection system
- set parameters of belt speed and head units
- type of squeegee or flood coater and the squeegee angle used
- process of producing a proof print and quality requirements to be checked on the proof, including:

- colour and strength
- registration and clarity
- adhesion
- gloss level
- drying or curing
- artwork detail
- process of the continuous monitoring of print quality
- process of drying and curing of ink before stacking
- procedure required for disposing of unused ink and solvent rags
- frequency and type of maintenance that should be performed on the printing machine
- indications of faults in equipment and enterprise personnel to report to
- regulatory requirements governing cleaning and waste disposal procedures
- 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 a semi-automatic printing machine.

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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