



Australian Government

ICPSCP2750 Automatically produce basic screen prints

Release: 1

ICPSCP2750 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 screen prints on an automatic printing machine.

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 an 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 Check ink against job specifications and adjust as required 1.5 Set and adjust feeder according to substrate requirements
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

ELEMENT	PERFORMANCE CRITERIA
	2.2 Seek approval to commence production from designated 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 and sheet feeder 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. Handle production output	4.1 Confirm drying and curing of output prior to handling 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
Writing	Completes required details using enterprise specific and factual information
Numeracy	Uses simple mathematical calculations to determine curing and drying times and optimum belt speed
Self-management	Takes personal responsibility for adherence to regulatory requirements with specific reference to safety

	• Monitors own progress for the task • 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 • 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 of specific functions of some common digital tools used in work contexts

Unit Mapping Information

Supersedes and is equivalent to ICPSCP275 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 ICPSCP2750 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 complex prints of more than two colours, containing line and tone using an automatic screen printing machine.

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
- demonstrate use of control, monitoring and data entry systems
- 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:

- enterprise procedures, and WHS risks and requirements for:
 - setting up and operating infra-red or UV curing units
 - maintaining and using an automatic printing machine
 - handling inks and solvents
 - cleaning equipment, squeegees/flood coaters, and surrounding areas
- machine adjustments required prior to set up and after printing, including maintenance on machine, feeder, and drying or curing units
- process for selecting substrate to job specifications and its required machine printing rate
- procedure for checking screen sequence of colours, ink, substrate and squeegee or flood coater prior to printing
- system for setting feed board and loading substrate, and preparations required prior to loading the feeder

- steps taken to position, register and lock the screen in position
- need to adjust the off contact or peel-off requirements of the screen
- relationship between ink deposit, squeegee speed and belt speed and temperature of drying or curing unit
- effect of humidity on the substrate
- required ink viscosity prior to and during printing, required output handling to prevent ink offsetting, and effect that ink conditions have on output capacity
- checks on and maintenance of print quality that take place during the run
- need to determine exact count of the output and record production details on the job sheet
- aspects and quality requirements of proof requiring checking after run and their adjustment procedures, including:
 - colour and strength
 - registration and clarity
 - adhesion
 - gloss level
 - drying or curing
 - artwork detail
- procedures for removing ink without damaging the screen
- indicators of faults in equipment and enterprise personnel to report to
- 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:

- automatic printing machine
- more than two colours.

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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