



Australian Government

ICPSCP3710 Manually produce complex screen prints

Release: 1

ICPSCP3710 Manually produce complex 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 produce three or more colour screen prints.

It applies to individuals working in the printing and graphic arts industry who may have to set up and operate power-driven or hand-operated screen printing machines. They may have to provide leadership and guidance to others and have some limited responsibility for the output of others.

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 Manually 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. Finish operation	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	- Records information relating to outcomes of job requirements - Records information relating to machinery problems
Numeracy	Uses simple mathematical calculations to determine and adjust resources and equipment
Self-management	Complies with enterprise procedures and regulatory requirements related to own work with specific reference to safety

Planning and organising	• Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for efficiency • Automatically implements standard procedures for routine decisions
Problem solving	• Identifies and takes responsibility for addressing predictable problems in familiar work contexts
Technology	• Understands the purposes, specific functions and key features of common digital systems and tools, and operates them effectively to complete routine tasks

Unit Mapping Information

Supersedes and is equivalent to ICPSCP371 Manually produce complex 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 ICPSCP3710 Manually produce complex 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:

- manually produce two different three or more colour screen prints.

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:

- enterprise procedures and WHS risks and requirements for:
 - producing a manual print
 - setting up and operating printing machinery
 - cleaning and waste disposal
 - machine shutdown
- selection criteria for the substrate for the job
- ink and substrate compatibility
- key characteristics of solvents and ink additives and methods for determining their compatibility
- the method used for checking the screen, ink, substrate and selection of squeegee prior to printing
- method for checking ink colour against job requirements
- routine maintenance required on the printing base
- lay edge on the equipment

- required position, register and process of locking the screen in position
- off contact distance
- selection of a drying or curing system
- process for calculating required belt speed for a print run
- reasons conditioning of some substrates is required
- procedure for checking required viscosity of ink during the print run and ways of rectifying any problems
- evaluation process and maintenance of print quality during the run
- proof quality and technical requirements including:
 - colour and strength
 - registration and clarity
 - adhesion
 - gloss level
 - drying or curing
 - artwork detail
- procedure for checking and stacking production output
- signs of equipment fault and enterprise personnel to report to
- method of cleaning squeegees, equipment and the surrounding area
- 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.

Links

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