



Australian Government

ICPSCP270 Manually prepare and produce screen prints

Release: 1

ICPSCP270 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 1.0.

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 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 Identify job requirements	1.1 Material safety data sheets (MSDS) are used to identify safe chemical handling procedures 1.2 Substrate is checked for conformance to job specifications with any irregularities reported and/or rectified 1.3 Ink is checked for conformance to job specifications 1.4 Stencil is checked for conformance to job specifications
2 Prepare machine to print	2.1 Substrate position and stencil registration are adjusted according to job specifications 2.2 Ink is applied to screen in quantity required for screen size 2.3 Equipment is kept clean and spillage is minimised

ELEMENT	PERFORMANCE CRITERIA
3 Produce proof print	3.1 Proof print is run off and checked for colour, strength, registration, adhesion, clarity, gloss level, drying and curing, artwork detail and other technical aspects according to job specifications 3.2 Adjustments are made according to product and machine specifications 3.3 Belt speed and energy required are set to achieve desired curing or drying properties 3.4 Appropriate approval to commence production is sought prior to commencement
4 Run job and monitor print quality	4.1 Printing speed production is adjusted to maximise quality and output 4.2 Print quality is continuously evaluated and adjusted as required 4.3 Effects of ink alterations during run are monitored and any discrepancy is notified according to enterprise procedures 4.4 Workplace documentation on job is completed as required 4.5 Curing and drying are constantly monitored and adjusted according to manufacturer or supplier and job specifications
5 Carry out routine user maintenance	5.1 Equipment is cleaned according to enterprise procedures 5.2 Fault conditions are identified and reported according to enterprise procedures
6 Stack production output	6.1 Output is checked for thorough drying and curing before stacking 6.2 Job status and progress are checked for conformance to job specifications and any necessary action is taken
7 Conduct shutdown	7.1 Material is transferred to correct destination in safe manner 7.2 Excess ink, screens, squeegees and flood coaters are removed and cleaned according to work health and safety (WHS) requirements and manufacturer or supplier specifications 7.3 Waste materials and chemicals are disposed of according to manufacturer or supplier specifications, regulatory requirements and enterprise procedures 7.4 Equipment and surrounding areas are cleaned according to manufacturer or supplier specifications 7.5 Tools and equipment are identified, stored and maintained according to manufacturer specifications to ensure ease of access and operator safety

ELEMENT	PERFORMANCE CRITERIA
	7.6 Correct procedure for dealing with spilt chemicals is demonstrated 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	Performance Criteria	Description
Reading	1.1-1.4, 2.1, 3.1, 3.2, 4.3-4.5, 5.1, 5.2, 7.2-7.6	Interprets textual information from relevant sources to identify and adhere to procedures and standards
Writing	1.2, 4.3, 4.4, 5.2	Completes required details accurately using enterprise specific factual information
Oral Communication	1.2, 3.4, 4.3, 5.2	- Reports issues or provides explanations using clear and specific language - Uses listening and questioning techniques to confirm understanding
Numeracy	2.1, 3.3, 4.1, 4.5	Recognises numerical information and makes basic calculations to adjust production processes
Navigate the world of work	4.3, 5.1, 5.2, 7.1-7.6	- Takes personal responsibility for adherence to legal and regulatory requirements with specific reference to safety - Complies with organisational policies and procedures relevant to own role
Interact with others	3.4	Contributes to specific activities requiring joint responsibility and accountability
Get the work done	1.2-1.4, 2.1-2.3, 3.1-3.3, 4.1, 4.2, 4.5, 5.2, 6.1, 6.2, 7.5	- Follows clearly defined instructions and sequencing and monitors own progress for the task - Responds to predictable problems and implements standard or logical solutions - Takes responsibility for routine low-impact decisions within familiar situations - Understands the purpose and some specific functions of common digital tools used in work contexts

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPSCP270 Manually prepare and produce screen prints	ICPSP270C Manually prepare and produce screen prints	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for ICPSCP270 Manually prepare and produce screen prints

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Performance Evidence

Evidence of the ability to:

- set up screen printing machinery and produce a print that meets job specifications on a range of common substrates, using fundamental manual screening.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- outline the information that can be gained from material safety data sheets (MSDS)
- explain why it is necessary to check the substrate for conformance to the job specifications
- describe the action required if the ink did not comply with the job specifications
- explain what compliance checks are made with the stencil
- determine what limitations occur when setting the substrate position
- describe the result if too much ink is applied to the screen
- explain why it is necessary to keep equipment clean
- outline the work health and safety (WHS) concerns when producing a manual print
- explain what is checked on the printed sheet when the proof print has been run off
- explain what determines the drying or curing system used for this application
- explain where to obtain product and machine specifications
- confirm what the result would be if the belt speed was too high
- explain why it is necessary to obtain final approval before commencing the production run
- identify aspects of the print that are evaluated during printing
- explain why it is necessary to make ink alterations during the run
- explain what happens to the workplace documentation when the print run is completed
- determine what WHS concerns there are in relationship to drying or curing systems

- explain what maintenance should be carried out on this machine
- explain why it is important to report any faulty equipment
- explain how to determine whether a print is dried or cured prior to stacking
- explain what the result would be if stacking occurs while the ink film is still wet
- describe the possible action needed if problems occur with the job progress
- explain how to identify the job's destination when the run has been completed
- explain the result of not keeping screens and squeegees clean
- describe the result of not following correct procedures when disposing of liquid waste
- explain the result of not keeping equipment and surrounding areas clean
- identify required manuals, safety and other documentation and briefly outline the relevant information in each source.

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 and manual screen printing machines.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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