



Australian Government

ICPSCP3510 Prepare machine and drying/curing unit

Release: 1

ICPSCP3510 Prepare machine and drying/curing unit

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 prepare a manual, semi-automatic or automatic machine for printing and set up drying and/or curing units.

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. Inspect screen	1.1 Identify screen frames and determine colour sequence 1.2 Examine screen frame for defects and undertake action as required 1.3 Tape each screen as required 1.4 Inspect screens against film positives, variations in centring, registration and alignment, and undertake action as required 1.5 Handle screen frame, mesh and stencil according to manufacturer specifications
2. Maintain and adjust	2.1 Inspect machine and carry out user maintenance according to

ELEMENT	PERFORMANCE CRITERIA
machine	manufacturer specifications and enterprise procedures 2.2 Make required periodic adjustments according to manufacturer specifications
3. Install screen frames and dry run machine	3.1 Position laysheet in grippers and side-lay according to manufacturer specifications 3.2 Image position is established on laysheet 3.3 Position screen frame in screen frame holder 3.4 Confirm registration, alignment and centring and tighten screen clamps 3.5 Run machine through printing, and confirm that substrate registers in lays
4. Prepare and position flood bar and squeegees	4.1 Assemble flood bar and squeegee and confirm that flood bar is free of nicks and burrs 4.2 Sharpen squeegee blade according to manufacturer specifications and ink system requirements 4.3 Position flood bar and squeegee according to job specifications with squeegee at required pre-determined angle 4.4 Adjust on and off contact according to ink system and printing speed 4.5 Adjust squeegee and bring into contact with substrate
5. Set up drying or curing unit	5.1 Set up belt speed and energy according to job requirements and adjust printing speeds 5.2 Stack stock as required at end of dryer

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	Establishes job requirements from relevant information
Numeracy	Uses simple mathematical calculations to determine and adjust resources and equipment
Self-management	- Complies with enterprise procedures - Considers own role in terms of its contribution to broader goals of

	the work environment
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	• Identifies the purposes, specific functions and key features of common digital systems and tools, and operates them effectively to complete routine tasks, adapting some functions to improve personal efficiency

Unit Mapping Information

Supersedes and is equivalent to ICPSCP351 Prepare machine and drying/curing unit.

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 ICPSCP3510 Prepare machine and drying/curing unit

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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:

- prepare a machine for printing two different jobs by installing the screen frame and squeegee or flood coater and setting up a drying or curing unit to achieve the desired properties, according to manufacturer specifications, enterprise procedures and work health and safety (WHS) requirements.

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 requirements for:
 - drying or curing units
 - handling blades
 - handling screen frame, mesh and stencil
- colour sequence of screens and signs of defects when examining screen and stencil
- variation between the positive and stencil
- maintenance required on the equipment, including periodic adjustments of the drying or curing units
- different machine capabilities and characteristics
- function of the printing base
- lay sheet position on the printing base and the image position on the lay sheet
- type of lay sheet being used
- frame position in the frame holder, and registering and alignment of the stencil with the image on the lay sheet
- checks required to maintain register
- required characteristics of a squeegee blade or flood coater
- purpose of shore hardness of squeegee material and the length of squeegee or flood coater

- positioning, fixing and adjustment of the squeegee or flood coater and the relationship of the squeegee to the flood coater
- adjustment of on and off contact distance and peel-off requirements of the screen frame
- relationship of the machine stroke to off contact or peel-off requirements
- effects of temperature on the substrate
- factors determining belt speed and energy requirements
- 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:

- special purpose tools, equipment and materials
- machine with drying/curing unit.

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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