



Australian Government

ICPSCP351 Prepare machine and drying/curing unit

Release: 1

ICPSCP351 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 1.0.

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 Screen frames are identified to determine colour sequence 1.2 Each screen frame is examined for defects and appropriate action taken 1.3 Each screen is taped as necessary 1.4 Screens are inspected against film positives, variations in centring, registration and alignment are noted, and appropriate action is taken 1.5 Screen frame, mesh and stencil are appropriately handled according to manufacturer or supplier specifications to prevent damage and hazards to personnel

ELEMENT	PERFORMANCE CRITERIA
2 Maintain and adjust machine	2.1 Machine is inspected and routine user maintenance is carried out according to manufacturer or supplier specifications and enterprise procedures 2.2 Required periodic adjustments and user maintenance items are made at correct times according to manufacturer or supplier specifications and enterprise procedures
3 Install screen frames and dry run machine	3.1 Laysheet is positioned in grippers and side-lay according to manufacturer or supplier specifications 3.2 Image position is established on laysheet 3.3 Screen frame is positioned in screen frame holder 3.4 Registration, alignment and centring are confirmed and screen clamps tightened to ensure no movement of the frame according to manufacturer or supplier specifications 3.5 Machine is run through printing cycle at same time, ensuring that substrate registers in lays and appropriate action is taken
4 Prepare and position flood bar and squeegees	4.1 Flood bar (for semi-automatic and automatic machines) and correct squeegee are assembled according to manufacturer or supplier specifications, ensuring that flood bar is free of nicks and burrs 4.2 Squeegee blade is sharpened according to manufacturer or supplier specifications and considering ink system to be used 4.3 Flood bar (for semi-automatic and automatic machines) and squeegee are positioned according to job specifications with squeegee at correct pre-determined angle 4.4 On and off contact (and peel-off if available) is adjusted to suit ink system and printing speed according to manufacturer or supplier specifications 4.5 Squeegee is correctly adjusted and brought into contact with substrate
5 Set up drying or curing unit	5.1 Belt speed and energy required are set to achieve desired properties and then printing speeds are adjusted accordingly 5.2 Stock is properly stacked 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	Performance Criteria	Description
Reading	1.5, 2.1, 2.2, 3.1, 3.4, 4.1-4.4	Establishes job requirements from relevant information
Numeracy	4.3, 4.4, 5.1	Uses simple mathematical calculations to determine and adjust resources and equipment
Navigate the world of work	1.5, 2.1, 2.2	- Complies with legislative requirements and organisational policies and procedures - Considers own role in terms of its contribution to broader goals of the work environment
Get the work done	1.1-1.4, 2.2, 3.1-3.5, 4.1, 4.2, 4.5, 5.2	- Understands 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 - Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for efficiency - Automatically implements standard procedures for routine decisions - Recognises and takes responsibility for addressing predictable problems in familiar work contexts

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPSCP351 Prepare machine and drying/curing unit	ICPSP351C Prepare machine and drying/curing unit	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 ICPSCP351 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 1.0.

Performance Evidence

Evidence of the ability to:

- correctly 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, job, enterprise and health and safety requirements.

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:

- identify the colour sequence of screens and defects identified when examining the screen and stencil
- name the variation between the positive and stencil
- outline the health and safety concerns when using drying or curing units
- outline the maintenance that is required on this equipment, including the periodic adjustments that are made to the drying or curing units
- identify different machine capabilities and characteristics
- describe the function of the printing base
- describe the position of the lay sheet on the printing base and the image position on the lay sheet
- name the type of lay sheet being used
- describe the position of the frame in the frame holder, and registering and alignment of the stencil with the image on the lay sheet
- outline the checks that are required to maintain register
- describe the characteristics of a good squeegee blade or flood coater
- discuss the significance of shore hardness of squeegee material and the length of squeegee or flood coater

- outline the positioning, fixing and adjustment of the squeegee or flood coater and the relationship of the squeegee to the flood coater
- describe the adjustment of on and off contact distance and peel-off requirements of the screen frame
- identify the relationship of the machine stroke to off contact or peel-off requirements
- outline the adjustments that are required to the unit for and during drying or curing
- discuss the effects of temperature on the substrate
- 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 special purpose tools, equipment and materials.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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