



Australian Government

ICPPRP267 Produce offset lithographic plates

Release: 1

ICPPRP267 Produce offset lithographic plates

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 make lithographic plates from film input. For plates with electronic input see *ICPPRP452 Output complex images direct to plate or press*.

It requires the individual to correctly prepare, expose and process a lithographic plate, and post-treat the plate to satisfy job specifications.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Pre-Press

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 Select and prepare plate	1.1 Job specifications are interpreted to determine appropriate type and size of plate for the job 1.2 Plate is selected to deliver quality of output required by the job brief 1.3 Plate is prepared to accommodate printing machine plate positioning requirements
2 Expose plate	2.1 Work area is tidied and cleaned to ensure quality of output 2.2 Film is correctly positioned on plate according to job specification 2.3 Correct exposure unit is selected to deliver required output

ELEMENT	PERFORMANCE CRITERIA
	2.4 Exposure control is correctly established utilising a quality-control step wedge 2.5 Exposure and vacuum frame are maintained according to manufacturer's specifications
3 Process plate	3.1 Plate processing unit is maintained according to manufacturer's specifications 3.2 Plate is processed according to plate manufacturer's specifications
4 Post-treat plate	4.1 Plate is checked for quality of outcome and analysed for conformance to job specifications 4.2 Changes to plate image are carried out correctly to ensure standard of output required by the job brief 4.3 Plate is chemically treated and/or baked according to job specifications 4.4 Plate is prepared for storage prior to printing according to manufacturer's specifications

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, 1.2, 2.2, 2.5, 3.1, 3.2, 4.1-4.4	Recognises and interprets text to establish job requirements from information contained within relevant procedures and specifications
Navigate the world of work	2.1	Recognises and follows organisational and legislative requirements associated with own role
Get the work done	1.1-1.3, 2.2-2.5, 3.1, 3.2, 4.1-4.4	- Determines priorities and sequences steps involved in clearly defined, familiar tasks and identifies and assembles required resources - Applies analytical processes to resolve technical problems - Initiates standard procedures when responding to familiar problems within immediate context

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPPRP267 Produce offset lithographic plates	ICPPP267C Produce offset lithographic plates	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 ICPPRP267 Produce offset lithographic plates

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Performance Evidence

Evidence of the ability to:

- prepare, set up and use lithographic plate exposure and plate processing equipment to produce a lithographic plate manually, and another using a machine according to listed performance criteria
- process plate according to plate manufacturer's specifications
- carry out changes to plate image correctly, to deliver standard of output required by the job brief
- identify substrate for reproduction and ensure plate quality is suitable for the identified printing processes; this ensures skills of plate making are transferable across the design and pre-press sectors
- find and use information relevant to task from a variety of information sources.

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:

- list types of lithographic plates
- define criteria for selection of plates
- outline advantages and disadvantages of negative and positive plates
- explain plate exposure techniques and control, including:
 - why images should be centred and square
 - importance of colour bars and control strips
- light sources used in plate exposing frames
- explain plate processing
- list work health and safety (WHS) concerns when processing printing plates
- name baths and solutions used in a plate processing machine

- explain impact of a change in processor time on the final plate
- explain plate finishing and correction
- explain purpose of gumming a plate
- outline post-exposure techniques
- list criteria used to evaluate accuracy of the plate
- discuss dot gain issues
- explain difference between physical and optical dot gain
- outline steps to overcome dot gain
- explain plate punching and registration
- detail care needed to ensure accurate punching and registration
- list manuals, safety and other documentation relevant to this task and identify where are they kept and what information is included.

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 Pre-Press field of work and include access to special purpose tools, equipment and industry software packages.

Assessors must satisfy NVR/AQTF assessor requirements.

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