



Australian Government

ICPPRP2670 Produce offset lithographic plates

Release: 1

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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 make lithographic plates from digital input.

It applies to individuals who 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 Evaluate job specifications to determine required type and size of plate for the job and required software 1.2 Identify manufacturer specifications for required plate 1.3 Select plate according to quality requirements of output 1.4 Prepare plate to accommodate printing machine plate positioning requirements 1.5 Assemble required data and equipment for processing
2. Expose plate	2.1 Clean work area 2.2 Select exposure unit according to output requirements 2.3 Establish exposure control as required 2.4 Monitor and adjust exposure and vacuum frame according to manufacturer specifications

ELEMENT	PERFORMANCE CRITERIA
3. Process plate	3.1 Monitor and adjust plate processing unit according to enterprise requirements and work health and safety (WHS) procedures 3.2 Select and review program options for processing according to quality requirements 3.3 Process plate
4. Post-treat plate	4.1 Check plate for quality of outcome and analyse for conformance to job specifications 4.2 Implement changes to plate image and confirm standard of output required 4.3 Chemically treat and bake plate as required 4.4 Prepare plate for storage prior to printing according to manufacturer specifications

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading	Identifies and evaluates text to establish job requirements
Self-management	Identifies and follows enterprise procedures associated with own role
Planning and Organising	Determines priorities and sequences steps involved in clearly defined, familiar tasks and identifies and assembles required resources
Technology	Identifies purposes, specific functions and key features of common lithographic print equipment and tools and operates them to produce plates to requirements
Problem Solving	- Applies analytical processes to resolve technical problems - Initiates standard procedures when responding to familiar problems within immediate context

Unit Mapping Information

Supersedes and is equivalent to ICPPRP267 Produce offset lithographic plates.

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 ICPPRP2670 Produce offset lithographic plates

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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 the unit, including evidence of the ability to:

- prepare, set up and use lithographic plate exposure and plate processing equipment and software to produce one lithographic plate manually and one with machinery.

In the course of the above, the candidate must:

- modify the plate image to deliver the required standard of output
- identify the substrate for reproduction
- ensure plate quality meet requirements for the identified printing processes.

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:

- types of lithographic plates and the criteria for their selection
- advantages and disadvantages of negative and positive plates
- computer-to-plate (CTP) printing and its industry-standard equipment software
- plate exposure techniques and control, including:
 - the squared and centred position of images
 - importance of colour bars and control strips
 - light sources used in plate exposing frames
- plate processing
- work health and safety (WHS) requirements when processing printing plates
- baths and solutions used in a plate processing machine
- impacts of changes in processor time on the final plate
- plate finishing and correction procedures
- purpose of gumming a plate

- post-exposure techniques
- criteria used to evaluate plate accuracy
- procedures to address dot gain issues
- difference between physical and optical dot gain
- plate punching and registration and procedures required to maintain accuracy
- manufacturer manuals, enterprise procedures and work health and safety and enterprise documentation, including their location and purpose.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the area of work.

This includes access to:

- lithographic print tools and equipment
- industry software packages.

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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