



Australian Government

ICPPRP272 Produce gravure cylinders manually

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 1.0.

Application

This unit describes the skills and knowledge required to manually make gravure cylinders.

It requires the individual to manually make gravure cylinders by planning, selecting, exposing and developing the plate, and establishing and maintaining a chemical register.

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 plate	1.1 Job specifications are interpreted to determine the appropriate type of cylinder base and/or shell for the job 1.2 Cylinder and/or shell is selected to deliver output quality required by the job brief
2 Pre-plan process	2.1 Work area is tidied and cleaned to ensure output quality and a safe worksite 2.2 Exposure and coating equipment is maintained according to manufacturer's specifications and safety requirements 2.3 Exposure is controlled using step wedges and densitometry 2.4 Cylinder is coated according to manufacturer's specifications 2.5 Cylinder is exposed making sure image direction, autotrons and tracker lines are correctly positioned according to job specifications

ELEMENT	PERFORMANCE CRITERIA
	2.6 Work health and safety (WHS) requirements are observed when handling chemicals
3 Expose plate	3.1 Chemical balance is checked and maintained in developing tank 3.2 Cylinder is developed according to manufacturer's specifications, enterprise procedures and safety requirements
4 Develop plate	4.1 Etching bath is maintained to correct activity level according to manufacturer's specifications and enterprise procedures 4.2 Cylinder is etched according to the job specifications (cell depth)
5 Finish plate	5.1 Establish a chemical register to identify and describe purpose of each chemical and ensure finished cylinders meet set specifications 5.2 All chemicals used in the workplace are identified and registered correctly according to safe working practices

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, 2.2, 2.4, 2.5, 3.2, 4.1, 4.2, 5.1	Recognises and interprets text to establish job requirements from information contained within relevant procedures and specifications
Writing	5.1, 5.2	Completes workplace records and forms accurately and legibly using correct technical and enterprise specific vocabulary
Navigate the world of work	2.1, 2.2, 2.6, 3.2, 4.1, 5.1, 5.2	Complies with legislative requirements and follows organisational policies and procedures relevant to own role
Get the work done	1.1, 1.2, 2.2, 2.4, 2.5, 3.1, 3.2, 4.1, 4.2	- Determines priorities and sequences steps involved in clearly defined, familiar tasks and identifies and assembles required resources - Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for greater efficiency - 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
ICPPRP272 Produce gravure cylinders manually	ICPPP272C Produce gravure cylinders manually	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 ICPPRP272 Produce gravure cylinders manually

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Performance Evidence

Evidence of the ability to:

- manually produce TWO gravure cylinders and establish and maintain a chemical register according to the listed performance criteria
- safely and correctly process the cylinder to ensure etching produces a quality print
- find and use information relevant to the 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:

- state chemical names and symbols for three chemicals used in cylinder production
- describe standard safety procedures used when handling gravure chemicals
- describe two methods of manual gravure cylinder production
- explain cylinder balancing and how it is achieved
- outline preparation processes for both steel and aluminium cylinder bases
- explain Blue Print and how it is produced
- outline Direct Transfer method of cylinder production
- explain how cell depth is determined
- identify etching solution chemical
- state thickness of chrome coating on the etched surface
- outline factors that govern rate of etch
- list manuals, safety and other documentation relevant to this task, identify where they are 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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