



Australian Government

ICPPRN2320 Produce basic lithographic printed product

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 produce basic lithographic printing, including small offset product. This requires operation of a lithographic press to support efficient routine production flow while maintaining product quality standards. It includes requirements related to shutdown and cleaning of the printing press.

It applies to individuals who work under direct supervision and perform a range of routine printing tasks in a defined context. The practical skills and operational knowledge required to perform these tasks is at a fundamental level.

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

Unit Sector

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. Maintain routine operation of delivery systems	1.1 Monitor and adjust delivery systems according to work health and safety (WHS) requirements 1.2 Add substrate to and remove substrate from the process according to job specifications
2. Maintain basic routine lithographic printing process	2.1 Review and adjust lithographic plate and plate cylinder condition 2.2 Review and adjust lithographic blanket and blanket cylinder condition

ELEMENT	PERFORMANCE CRITERIA
	2.3 Monitor and adjust lithographic impression cylinder condition 2.4 Check and maintain lithographic inking condition 2.5 Monitor and adjust lithographic dampening system condition
3. Maintain routine production process	3.1 Use machine controls as required 3.2 Review and verify performance using the process control system 3.3 Check and adjust ink performance, colour, register and position 3.4 Report process adjustments to eliminate problems according to enterprise procedures
4. Rectify minor lithographic machine faults	4.1 Identify and report problems in machine operation according to enterprise procedures 4.2 Carry out adjustments or corrections according to specified procedures, and within scope of own role 4.3 Verify repairs and adjustments as required prior to resumption of operations
5. Conduct shutdown of production process	5.1 Follow shutdown sequence according to manufacturer specifications and enterprise procedures 5.2 Remove solid and liquid waste from operating area and recycle and dispose of, as required, according to regulatory requirements and enterprise procedures 5.3 Clean and disengage all required parts of machinery used in printing process according to manufacturer specifications and enterprise procedures 5.4 Complete required production records and enterprise documentation

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Description
Writing	Enters routine data associated with production processes and enterprise procedures
Numeracy	Interprets and analyses a range of mathematical information used in familiar and routine tasks

Self-management	- Identifies and follows explicit and implicit protocols and meets expectations associated with own role - Identifies and follows all procedures for cleaning and maintenance of equipment, incorporating regulatory requirements and enterprise procedures
Teamwork	- Cooperates with others as part of familiar routine activities, and contributes to specific activities requiring joint responsibility and accountability - Identifies what to communicate, with whom and how, in routine work situations
Planning and organising	Determines priorities and sequences steps involved in clearly defined, familiar tasks
Problem solving	Identifies and anticipates an increasing range of familiar problems, their symptoms and causes, actively looking for early warning signs and implementing contingency plans
Technology	Follows routine procedures for using digital technology by reading data from electronic monitoring and control systems

Range of Conditions

This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Delivery systems must include either:	- reel or - sheet
Setting up and adjusting must include either:	- unwind and rewind reels - webbing procedures - splicing/joining reels - printed web viewing devices - folder and sheeter systems - set off / marking prevention devices or - feeder and delivery systems - sheet pick-up and transportation systems - transfer and control systems - set off / marking prevention devices

Unit Mapping Information

Supersedes and is equivalent to ICPPRN232 Produce basic lithographic printed product.

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 ICPPRN2320 Produce basic lithographic printed product

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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:

- produce two basic lithographic printings.

In the course of the above the candidate must:

- operate production process in association with fellow workers and according to enterprise procedures and planned daily schedule
- follow work health and safety (WHS) requirements, manufacturer specifications and enterprise procedures
- use control, monitoring and data entry systems
- anticipate production difficulties and take preventive action to prevent occurrence.

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 risks and requirements for:
 - loading and handling heavy reels
 - operating and maintaining in-line components of the press
 - handling solvents and solutions
 - cleaning and waste disposal
- the effect of excessive tension on the rewinding reel on the print
- the web splicing process and impact of incorrect splicing
- the purpose of fanning sheets before loading into the press
- setting and checking procedures for the double sheet detector during the print run
- components that can be adjusted to ensure delivery as required
- the effect of excessive suction on the slow-down wheels
- the required action if non-image area of the print was scumming during printing
- the causes of emulsification while printing on a lithographic printing press

- signs of wear in image area of the plate
- the level the ink should be maintained at
- the examination frequency for in-line components of the job
- quality criteria for printed material and the precautions required to ensure the rewound product is of consistent, acceptable quality
- the required frequency of product quality assessments
- the marking of product deemed unacceptable by the operator
- the effect of excessive gum on the plate image
- machine parts requiring thorough cleaning and components requiring inspection for wear following the print run
- the required records for following or repeat prints
- 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 printing field of work and include access to:

- lithographic printing machine
- industry software packages
- special purpose tools, equipment and materials.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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