



Australian Government

ICPPRN531 Set up for specialised lithographic printing

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 set up for specialised lithographic printing.

It applies to individuals who can problem-solve and experiment with substrate and press settings for either wide or narrow reel- or sheet-fed lithographic printing machines for specialised print jobs.

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. Confirm specialised job specifications	1.1 Job requirements are read and interpreted from job documentation or production control system 1.2 Availability of all job related components is checked
2. Plan and carry out specialised set-up	2.1 Specialised job specifications are identified and analysed 2.2 Special set-up requirements are determined 2.3 Specialised set-up is completed in minimum time with minimum wastage
3. Set up delivery systems	3.1 Delivery systems are set up and adjusted according to job specifications 3.2 Substrate is added to and removed from process according to

ELEMENT	PERFORMANCE CRITERIA
	job specifications
4. Select and prepare inks and additives	4.1 Colour sequence for the job is considered and confirmed 4.2 Inks, dyes or additives are evaluated with reference to specialised requirements 4.3 Inks, dyes or additives are selected according to job specifications 4.4 Inks, dyes and additives are prepared according to work health and safety (WHS) requirements, and manufacturer's/supplier's instructions with suitable precautions to minimise waste 4.5 Correct colour and weight/volume of ink are mixed and prepared to match requirements of the printing process and job specifications 4.6 Formulation of ink, colour match and approved colour are appropriately recorded 4.7 Inks, dyes and additives are appropriately labelled, handled and stored according to manufacturer's/supplier's instructions to prevent damage and hazards to personnel and to prolong shelf life
5. Set up machine for specialised lithographic printing	5.1 Plate cylinder is set up, evaluated and adjusted according to job specifications 5.2 Lithographic plate is selected and prepared for installation 5.3 Plates are correctly mounted safely and according to job specifications 5.4 Blanket and blanket cylinder are set up, evaluated and adjusted according to job specifications 5.5 Impression cylinder is set up, evaluated and adjusted according to job specifications 5.6 Inking system is set up, evaluated and adjusted according to the lithographic process and job specifications 5.7 Dampening system is set up, evaluated and adjusted according to job specifications 5.8 Drying system is set up, evaluated and adjusted according to job specifications
6. Conduct specialised proof run	6.1 Material to be used for proof is organised correctly 6.2 Machine is operated according to manufacturer's specifications and enterprise procedures to produce a specified proof 6.3 Specialised proof is visually inspected and/or tested or laboratory testing is organised according to enterprise procedures

ELEMENT	PERFORMANCE CRITERIA
	6.4 Production does not commence without client approval or authority where appropriate 6.5 Results are interpreted and evaluated with adjustments carried out according to product and machine specifications
7. Troubleshoot machinery and material problems	7.1 Corrective or preventive action is recommended and implemented where appropriate 7.2 Changes are communicated to relevant personnel in a logical and easily understood manner 7.3 Changes are monitored to confirm improvement to production efficiency 7.4 Ongoing problems are reported according to enterprise procedures

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, 2.1, 4.3-4.5, 4.7, 5.1, 5.3-5.8, 6.5,	Recognises and interprets text to establish job requirements from information contained within relevant procedures and specifications
Writing	4.6, 4.7, 6.4, 7.2, 7.4	- Completes workplace recording accurately - Demonstrates sophisticated control of a broad range of text types
Oral Communication	1.1, 2.1, 4.3, 4.5, 5.1, 5.3-5.8, 6.4, 7.2, 7.4	Participates effectively in spoken interactions by using strategies to confirm, clarify or repair understanding
Numeracy	4.5	Interprets and analyses a range of mathematical information used in familiar and routine tasks
Navigate the world of work	1.2, 2.1, 2.3, 4.2-4.7, 5.1, 5.3-5.8, 6.2-6.5, 7.3, 7.4	- Recognises and follows explicit and implicit protocols and meets expectations associated with own role - Complies with WHS, legislative requirements and follows organisational policies and procedures relevant to own role
Interact with	1.1, 2.1, 5.3, 5.5, 6.1, 6.3-6.8, 7.4, 8.2,	Seeks to cooperate with others to achieve results in immediate work context

others	8.4	
Get the work done	1.2, 1.3, 2.1-2.3, 4.1-4.5, 4.7, 5.1, 5.3-5.8, 6.1-6.3, 6.5, 7.3, 7.4	- Plans, evaluates, identifies and assembles resources required to complete tasks - Determines priorities and sequences steps involved in complex tasks with a focus on production efficiency - May use formal analytical and lateral thinking techniques to identify issues, generate and evaluate possible solutions - Is acutely aware of the importance of understanding, monitoring and controlling access to digitally stored and transmitted information - Uses familiar digital systems and tools to access, organise, analyse and display information relevant to role - Reads 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:	- set-up options for unwind and rewind reels - webbing procedures and web control system - splicing/joining reels - printed web viewing devices - folder and sheeter - set off / marking prevention devices OR - feeder and delivery sections - sheet pick-up, transportation, control and transfer systems - set off / marking prevention devices

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPPRN531 Set up for specialised lithographic printing	ICPPR531C Set up for specialised lithographic printing	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>