



Australian Government

ICPPRN431 Set up for complex 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 options, and then set up either wide or narrow reel or sheet-fed lithographic printing machines for non-routine print jobs. It includes the ability to conduct a proof run and adjust settings to ensure production speeds are attained in minimum time with minimum wastage.

It applies to individuals working as print machinists in the printing and graphic arts industry. They prepare material, set up, monitor and operate equipment and machinery, apply solutions to a defined range of problems associated with the print medium, and analyse and evaluate information from a variety of sources. They may also provide leadership and guidance to others with some limited responsibility for the output of others.

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 complex job specifications	1.1 Job requirements are read and interpreted from job documentation or production control system 1.2 Non-routine set up is planned and carried out correctly in minimum time with minimum wastage 1.3 Availability of all job related components is checked
2. Set up delivery systems	2.1 Delivery systems are set up and adjusted according to job specifications

ELEMENT	PERFORMANCE CRITERIA
	2.2 Substrate is added to and removed from process according to job specifications
3. Select and prepare inks and additives	<p>3.1 Colour sequence for job is considered and confirmed</p> <p>3.2 Inks, dyes or additives are selected according to non-routine job specifications and end-user requirements</p> <p>3.3 Quality and suitability of inks, dyes or additives are checked and appropriate action is taken</p> <p>3.4 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</p> <p>3.5 Correct colour and weight/volume of ink is mixed and prepared to match requirements of the job specification and the non-routine printing process</p> <p>3.6 Formulation of ink, colour match and approved colour are appropriately recorded</p> <p>3.7 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</p>
4. Set up machine for complex lithographic printing	<p>4.1 Plate cylinder is set up and adjusted according to job specifications</p> <p>4.2 Plates are correctly mounted according to machine specification and in a safe manner</p> <p>4.3 Blanket and blanket cylinder are set up and adjusted according to job specifications</p> <p>4.4 Impression cylinder is set up and adjusted according to job specifications</p> <p>4.5 Inking system is set up and adjusted according to the lithographic process and job specifications</p> <p>4.6 Dampening system is set up and adjusted according to job specifications</p> <p>4.7 Drying system is set up and adjusted according to job specifications</p>
5. Conduct proof run	<p>5.1 Material to be used for proof is organised correctly</p> <p>5.2 Machine is operated according to manufacturer's and enterprise procedures to produce a specified proof</p> <p>5.3 Production does not commence without client approval or authority where appropriate</p>

ELEMENT	PERFORMANCE CRITERIA
	5.4 Results are interpreted and adjustments are carried out according to product and machine 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, 3.2, 3.4, 3.7, 4.1-4.8, 5.4	<ul style="list-style-type: none"> Recognises and interprets text to establish job requirements from information contained within relevant instructions, procedures and specifications
Writing	5.7, 5.3	<ul style="list-style-type: none"> Completes forms and labels accurately and according to workplace requirements
Oral Communication	5.3	<ul style="list-style-type: none"> Participates effectively in spoken interactions using appropriate vocabulary, and employs questioning and listening techniques to gain approvals
Navigate the world of work	3.4, 3.6, 3.7, 4.3, 5.2, 5.3,	<ul style="list-style-type: none"> Complies with legislative requirements and follows organisational policies and procedures relevant to own role
Interact with others	5.3	<ul style="list-style-type: none"> Follows accepted communication practices and protocols when seeking approval
Get the work done	1.1-1.3, 2.1, 2.2, 3.1, 3.2-3.5, 3.7, 4.1-4.8, 5.1, 5.2, 5.4	<ul style="list-style-type: none"> With assistance, determines priorities and sequences steps involved in clearly defined, familiar tasks and identifies and assembles required resources Responds to predictable problems and implements standard or logical solutions related to role in immediate work environment 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:	<ul style="list-style-type: none"> • reel OR <ul style="list-style-type: none"> • sheet
Setting and adjusting MUST include EITHER:	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • feeder and delivery sections • sheet pick-up, transportation and 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
ICPPRN431 Set up for complex lithographic printing	ICPPR431C Set up for complex lithographic printing	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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