



Australian Government

ICPPRN393 Set up for basic relief 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 safely set up reel-fed or sheet-fed platen, cylinder or rotary printing machines, and conduct a proof run for basic relief printing.

It applies to individuals who prepare material, monitor and run equipment and machinery, and apply solutions to a defined range of unpredictable problems. 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 job specifications	1.1 Job requirements are read and interpreted from job documentation or production control system 1.2 Set-up is carried out correctly in minimum time with minimum wastage, and availability of all job related components is checked
2. Set up reel system	2.1 Unwind and rewind reels are set up and adjusted according to job specifications 2.2 Webbing procedures are carried out and web-control system is set up and adjusted according to job specifications 2.3 Reels are spliced/joined according to job specifications 2.4 Printed web viewing devices are set up and adjusted according

ELEMENT	PERFORMANCE CRITERIA
	to job specifications 2.5 Folder and sheets are set up and adjusted according to job specifications 2.6 Set off / marking prevention devices are set up and adjusted according to job specifications
3. Set up sheet transportation system on sheet-fed machine	3.1 Feeder and delivery sections are set up and adjusted according to job specifications 3.2 Sheet pick-up and transportation systems are set up and adjusted according to job specifications 3.3 Transfer and control systems are set up and adjusted according to job specifications 3.4 Set-off / marking prevention devices are set up and adjusted according to job specifications 3.5 Substrate is added to and removed from process according to job instructions
4. Select and prepare inks and additives	4.1 Quality and suitability of inks, dyes or additives are selected according to job specifications and end-user requirements 4.2 Quality and suitability of inks, dyes or additives are checked and appropriate action is taken 4.3 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 4.4 Correct colour and weight/volume of ink are mixed and prepared to match requirements of the printing process and job specifications 4.5 Formulation of ink, colour match and approved colour are appropriately recorded 4.6 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. Select and prepare embellishment dyes	5.1 Quality and suitability of dyes are selected according to job specifications and end-user requirements 5.2 Dyes are prepared according to WHS requirements and manufacturer's/supplier's instructions, with suitable precautions to minimise waste 5.3 Dyes are appropriately labelled, handled and stored according to manufacturer's/suppliers instructions to prevent damage and

ELEMENT	PERFORMANCE CRITERIA
	hazards to personnel and to prolong shelf life 5.4 Impression is set up and adjusted according to job specifications (platen and rotary) 5.5 Inking system is set up and adjusted according to the relief process and job specifications (platen and rotary) 5.6 Drying system is set up and adjusted according to job specifications
6. Set up machine for basic relief printing	6.1 Appropriate relief plates are selected and secured to the machine 6.2 Relief plates, formes or cylinders are positioned, set up and adjusted according to job specifications (platen and rotary) 6.3 Impression is set up and adjusted according to job specifications (platen and rotary) 6.4 Inking system is set up and adjusted according to relief process and job specifications (platen and rotary) 6.5 Drying system is set up and adjusted according to job specifications
7. Set up machine for basic embellishment	7.1 Appropriate dyes are selected and secured to the machine 7.2 Dyes are positioned and set up and adjusted according to job specifications (platen and rotary) 7.3 Impression is set up and adjusted according to job specifications (platen and rotary)
8. Conduct proof run	8.1 Material to be used for proof is organised correctly 8.2 Machine is operated according to manufacturer's and enterprise procedures to produce specified proof 8.3 Proof is visually inspected and/or tested or laboratory testing organised according to enterprise procedures 8.4 Client approval or authority is sought prior to the production run where appropriate 8.5 Results are interpreted and adjustments are carried out according to product and machine specifications to determine adjustment requirements

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, 2.1-2.6, 3.1-3.5, 4.1, 4.3, 4.4, 4.6, 5.1-5.6, 7.2, 7.3, 8.3, 8.5	Recognises and interprets text to establish job requirements from information contained within relevant procedures and specifications
Writing	4.5, 4.6, 8.4	Enters routine data associated with production processes and enterprise procedures
Oral Communication	2.1-2.6, 3.1-3.5, 4.1, 4.3, 4.4, 5.1, 5.4-5.6, 7.2, 7.3, 8.3, 8.4	Speaks clearly using appropriate vocabulary, tone and pace to report faults and discrepancies
Numeracy	3.5, 4.4	Interprets and analyses a range of mathematical information used in familiar and routine tasks
Navigate the world of work	1.1, 1.2, 2.1-2.6, 3.1-3.5, 4.1-4.6, 5.1-5.6, 6.1, 6.2-6.5, 7.1-7.3, 8.1-8.5	Recognises and follows explicit and implicit protocols and meets expectations associated with own role
Interact with others	2.1-2.6, 3.1-3.5, 4.1, 4.3, 4.4, 5.1, 5.4-5.6, 7.2, 7.3, 8.2-8.4	- Cooperates with others as part of familiar routine activities, and contributes to specific activities requiring joint responsibility and accountability - Understands what to communicate, with whom and how, in routine work situations
Get the work done	1.1, 1.2, 2.1-2.6, 3.1-3.5, 4.1-4.4, 4.6, 5.1-5.6, 6.1, 6.2-6.5, 7.1-7.3, 8.1-8.3, 8.5	- Takes responsibility for planning and organising own workload and assembles required resources - Recognises and takes responsibility for addressing predictable problems in familiar work contexts, adjusting resources and equipment as required - Follows routine procedures for using digital technology by reading data from electronic monitoring and control systems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
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Code and title current version	Code and title previous version	Comments	Equivalence status
ICPPRN393 Set up for basic relief printing	ICPPR393A Set up for basic relief 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>

Assessment Requirements for ICPPRN393 Set up for basic relief printing

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Performance Evidence

Evidence of the ability to:

- set up reel- or sheet-fed platen, cylinder or rotary printing machines for routine print jobs
- conduct proof run and adjust settings to ensure production speeds are attained
- use computerised control, monitoring and data entry systems if available and appropriate
- find and use information relevant to the task from a variety of information sources
- demonstrate all safety devices on the machine
- manipulate embellishment tools and operations
- set up for TWO basic relief printing jobs (if possible including at least one in-line process) according to manufacturer's specifications and enterprise procedures.

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:

Job specifications

- explain what to do if vital information is missing from the job ticket
- outline checks to do prior to set-up

Relief plates

- explain effect of plates with poor relief
- explain importance of calliper of mounting material
- explain how to position plate on the mount ensuring plate edges do not lift

Reel in-feed

- outline major work health and safety (WHS) concerns when setting up the reel in-feed
- explain how to determine printing side of the material
- outline effects of low web tension on the print

- explain other types of web splices that can be used appropriately for the job

Sheet in-feed

- outline major WHS concerns of setting up the sheet in-feed
- explain how sheet position is determined for the job
- outline effects that side lay selection has on the job
- explain how to appropriately select front lays
- list procedures for a register check
- explain why a two-sheet cut is used on most feeders
- explain how the machine knows if the sheet is missing or late

Reel only delivery system

- explain effects of excessive web tension at rewind of the machine
- outline major risks associated with rewind of the machine

Sheet only delivery system

- explain why application of spray powder is sometimes advisable
- list effects of too much spray powder
- explain the use of slowdown devices in the delivery
- outline effects of excessive jogging on the stack

Preparation of inks and additives

- outline main environmental and WHS concerns about inks and additives
- explain how to match ink to a particular job
- outline results of ink being too tacky
- explain the process for changing ink that is too light
- outline methods available to check ink for correct colour
- explain responsibility for passing the colour prior to running the job

Machine set-up

- outline WHS concerns of setting up the machine
- explain how to determine specifications relating to the specific job
- explain effects incorrectly set inking rollers have on the print
- outline ways the ink profile may vary across the machine
- explain what 'optimum ink duct sweep' refers to

Basic in-line processes

- outline precautions to take if UV drying is to be utilised to dry the ink film
- list steps to incorporate in-line processes into the make ready
- explain how equipment used in in-line processing can be protected against damage during set-up

Proofing and adjustment

- outline methods to minimise waste during make ready
- list procedures to be adopted to have the print approved

- list quality control measurements applied to the print to test against known standards
- outline checks on the initial print prior to running
- explain how settings to be adjusted are determined
- summarise the process to plot success of the machine adjustment
- summarise how to record final results for future reference

Source information

- outline a range of information sources relevant to basic relief printing.

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:

- special purpose tools, equipment and materials
- reel- or sheet-fed platen
- cylinder or rotary printing machines
- machine manuals, safety and other documentation relevant to basic relief printing.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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