



Australian Government

ICPPRN3210 Set up for basic gravure 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 4.0.

Application

This unit describes the skills and knowledge required to set up routine gravure printing for routine print jobs.

It applies to individuals who prepare material, and monitor and run equipment and machinery, and apply solutions to a defined range of unpredictable problems. Individuals may also provide leadership and guidance to members of their team.

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. Prepare for job	1.1 Identify job requirements 1.2 Carry out set-up of required machinery according to manufacturer specifications and work health and safety (WHS) requirements 1.3 Confirm availability of all job components
2. Set up reels	2.1 Set up and adjust unwind and rewind reels 2.2 Carry out webbing procedures 2.3 Establish and adjust web-control system 2.4 Splice and join reels as required

ELEMENT	PERFORMANCE CRITERIA
	2.5 Set up and adjust printed web viewing devices 2.6 Prepare and adjust folder and sheeter 2.7 Prepare and adjust set off and marking prevention devices
3. Select and prepare inks and additives (basic)	3.1 Select inks, dyes and additives required according to job specifications and end-user requirements and confirm they meet quality requirements 3.2 Prepare inks, dyes and additives according to manufacturer specifications 3.3 Mix and prepare colour and volume of ink to match requirements of the printing process and job specifications 3.4 Approve and record formulation of ink, colour match and approved 3.5 Label, handle and store inks, dyes and additives according to manufacturer specifications
4. Set up machine for basic gravure printing	4.1 Select, install, set up and adjust gravure cylinders 4.2 Prepare and adjust impression roller 4.3 Set up and adjust inking system and doctor blade as required 4.4 Set up and adjust drying system
5. Conduct proof run	5.1 Operate machine according to manufacturer specifications and enterprise procedures to produce specified proof 5.2 Inspect and test proof as required according to enterprise procedures 5.3 Seek client approval and authority prior to the production run as required 5.4 Interpret results and make adjustments according to product and machine specifications as required

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 • Complies with WHS and enterprise procedures relevant to own role
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	• Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for greater efficiency • Plans, identifies and assembles resources required to complete tasks
Problem solving	• Responds to predictable problems and implements standard or logical solutions
Technology	• Follows routine procedures for using digital technology by reading data from electronic monitoring and control systems

Unit Mapping Information

Supersedes and is equivalent to ICPPRN321 Set up for basic gravure printing.

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 ICPPRN3210 Set up for basic gravure printing

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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:

- set up a press on two occasions for basic gravure printing according to manufacturer specifications and enterprise procedures.

In the course of the above the candidate must:

- demonstrate all safety devices on the machine.

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:

- enterprise procedures, manufacturer specifications, and work health and safety (WHS) requirements for:
 - setting up and operating reel in-feed and delivery
 - the rewind of the machine delivery system
 - handling blades
 - handling inks and additives
- the job documentation or production control system, and the information it contains
- steps to take and procedures to follow:
 - if vital information is missing from the job ticket
 - to select the material printing side
 - to modify a slightly light ink to meet the needs of the job
 - to determine machine specifications for each job
 - to ensure ink levels in the inking system are maintained at the required level
 - to determine if inking system has been adjusted as required
 - to protect equipment used in in-line processing from damage during set-up
 - to incorporate in-line processes into the make ready

- to have the print approved
- to determine settings adjustments
- the effects of:
 - low web tension on the print
 - excessive web tension at the rewind of the machine
 - the ink being too viscose
- the materials required prior to set up
- the required cylinders for each job
- the key considerations when handling gravure cylinders
- parts of the unit requiring checks to ensure cylinder is installed as required
- different types of web-splices that could be used for the job
- the process of matching ink suitability to a job
- the environmental risks related to inks and additives and required legislation regarding their handling
- the available methods to check for correct ink colour
- enterprise personnel who pass the colour prior to running the job
- quality control measurements to apply to the proof to test against known standards
- items to check on the initial print prior to running
- the process used to plot success of the machine adjustment
- the method for recording final results for future reference
- 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:

- special purpose tools, equipment and materials
- gravure printing machine with in line units.

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

Links

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