



Australian Government

ICPPRN2220 Produce basic gravure 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 routine gravure printed product. This requires operation of a gravure press in a way that supports efficient production flow while maintaining product quality requirements. It includes requirements applicable to routine operation, shut down and cleaning.

It applies to individuals who work under direct supervision and perform a range of routine printing tasks in a defined context.

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 reel system	1.1 Monitor and adjust reel stand and rewind section and web control system according to work health and safety (WHS) requirements 1.2 Add substrate to and remove substrate from process according to job specifications 1.3 Monitor and adjust sheeting section 1.4 Check and adjust set-off and marking prevention systems according to proof quality requirements
2. Maintain basic gravure	2.1 Review and adjust gravure cylinder condition and impression

ELEMENT	PERFORMANCE CRITERIA
printing process	roller condition 2.2 Monitor and adjust gravure inking system and doctor blade 2.3 Observe and adjust drying systems 2.4 Monitor and adjust basic in-line process(es)
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. Identify and rectify 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 Label and store unused ink and embellishment equipment according to manufacturer specifications and enterprise procedures 5.3 Remove solid and liquid waste from operating area and recycle and dispose of, as required, according to regulatory requirements and enterprise procedures 5.4 Clean and disengage all required parts of machinery used in printing process according to manufacturer specifications and enterprise procedures 5.5 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
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Writing	Enters routine data associated with production processes and enterprise procedures
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

Unit Mapping Information

Supersedes and is equivalent to ICPPRN222 Produce basic gravure 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 ICPPRN2220 Produce basic gravure 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 gravure printing products.

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
- 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
 - using and monitoring in-line components of the press
 - handling solvents and solutions
 - cleaning and waste disposal
 - machine shutdown
- reel system process for determining substrate printing side
- effect of excessive tension on the unwinding reel on the print
- web splicing process and impact of incorrect splicing
- frequency of product quality assessment in gravure operations
- steps to take if print fills in when printing
- effect of dirt under the doctor blade on the print and the cylinder
- purpose of oscillation of the doctor blade
- procedure to address nicks in the doctor blade

- steps to take if ink in the duct is foaming
- signs of wear in the plate image area
- level ink should be maintained at
- required frequency of examination of in-line components of the job
- key items requiring monitoring to ensure quality control
- quality criteria for printed material and the precautions required to ensure the rewound product is of consistent, acceptable quality
- marking of product deemed unacceptable by the operator
- enterprise personnel to consult if the operator is unable to fix a print problem
- storage methods for plates following printing
- machine parts requiring thorough cleaning and components requiring inspection for wear following the print run
- 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:

- gravure printing machine with in-line processes
- 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

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