



Australian Government

ICPPRN3140 Produce complex flexographic 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 set up machines for non-routine flexographic printing.

It applies to individuals who work as print machinists. They prepare material, monitor and run equipment and machinery and apply solutions to printing difficulties as they arise.

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 non-routine operation of reel transportation and delivery systems	1.1 Identify job requirements 1.2 Monitor and adjust reel stand and web control system according to operating requirements 1.3 Add substrate to the printing process 1.4 Check and adjust reel rewind section according to tension requirements and confirm no marks, blemishes or damage to finished product has occurred 1.5 Remove substrate from the printing process 1.6 Monitor and adjust sheeting section and set off and marking prevention systems
2. Maintain complex	2.1 Monitor and adjust flexographic plate and plate cylinder or

ELEMENT	PERFORMANCE CRITERIA
flexographic printing process	sleeve condition according to required proof standard 2.2 Check flexographic impression roller condition 2.3 Review and adjust flexographic inking system and doctor blade condition 2.4 Monitor and adjust drying systems 2.5 Monitor and adjust in-line processes
3. Maintain non-routine production process	3.1 Use automatic control as per specification 3.2 Use manual control as per specification 3.3 Monitor and adjust ink performance, colour, register and position of print throughout production run 3.4 Report process adjustments to eliminate problems according to enterprise procedures
4. Identify and rectify faults	4.1 Identify and report problems in flexographic machine according to enterprise procedures 4.2 Carry out adjustments and corrections as required according to manufacturer specifications and within scope of own role 4.3 Identify machine faults requiring repair and report to designated person
5. Conduct shutdown of production process	5.1 Follow shutdown sequence according to manufacturer specifications and enterprise procedures 5.2 Remove reels and cores from press 5.3 Drain unused ink back into containers and label and store 5.4 Remove solid and liquid waste from operating area and recycle and dispose of, as required, according to regulatory requirements and enterprise procedures 5.5 Clean all required parts of flexographic machinery used in printing process 5.6 Lubricate and protect press according to duration of shutdown 5.7 Complete required production records and enterprise documentation

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading	Identifies and interprets text to establish job requirements
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
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 ICPPRN314 Produce complex flexographic 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 ICPPRN3140 Produce complex flexographic 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:

- monitor production output and make necessary adjustments to obtain required print quality on a flexographic machine while producing a complex print on two occasions, using different substrates.

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
- demonstrate use of control, monitoring and data entry systems
- 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:

- enterprise procedures and manufacturer specifications, and WHS requirements associated with flexographic printing processes, including:
 - rewinding and resheeting
 - the handling of inks and materials
 - the cleaning of sections of the machine
 - safety features within the organisation
- tension and positioning requirements for web control systems
- reel transportation and web control processes and common faults that may arise
- in-line processes and common problem areas and faults that may arise
- different types of reel-stands and their uses
- reel delivery processes and common faults that may arise

- ink issues in printing and methods of management
- drying process and the effect of temperature on the finished product
- unique properties and issues of ultraviolet (UV) ink
- substrate handling and issues that may arise at any point in the job production process
- machine guards and micro switches, their function, and the legal responsibility for their maintenance
- checks and solutions for issues in the production process
- criteria for assessing print quality
- workplace and client communication protocols
- procedures for sorting, discarding and reusing waste
- organisation labelling standards
- machine shutdown procedures
- use and storage of production records and the printed job
- use and storage of plates
- parts of flexographic machinery that are required to be cleaned after each run and the process for cleaning, including:
 - cylinders, sleeves, plate and roller surfaces
 - inking rollers, doctor blades and chamber blade systems
 - ink pumps, tanks and hoses
 - impression rollers, central impression and press rollers
 - in-line printing, converting, binding and finishing units
 - reel feed, transportation and delivery systems
- manufacturer manuals, enterprise procedures and work health and safety documentation, including their location and purpose.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- special purpose tools, equipment and materials
- standard inks and substrates
- flexographic printing machines.

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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