



Australian Government

ICPPRN2420 Produce basic pad 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 safely operate a pad printing machine ensuring efficient routing production flow that maintains product quality standards.

It applies to individuals working in the printing and graphic arts industry who perform a range of mainly routine tasks, work under direct supervision and use limited practical skills and knowledge 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 pad printing process	1.1 Check and adjust location of objects into fixtures as required according to work health and safety (WHS) requirements 1.2 Evaluate and maintain printing plate and printing pad condition 1.3 Monitor and adjust spatula, doctor blade and ink cup as required 1.4 Monitor and adjust printing ink viscosity
2. Maintain manual pre- and post-treatments	2.1 Review and adjust manual loading 2.2 Review and adjust manual pre-treatment 2.3 Monitor and adjust drying racks

ELEMENT	PERFORMANCE CRITERIA
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 Check product quality and adjust performance according to job specifications 3.5 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	5.1 Follow shutdown sequence according to manufacturer specifications and enterprise procedures 5.2 Label and store unused ink 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 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
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 • 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 ICPPRN242 Produce basic pad 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 ICPPRN2420 Produce basic pad 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 pad printing jobs.

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:
 - setting up and operating this machine
 - machine shutdown
 - cleaning and waste disposal
 - handling blades
- material safety data sheets (MSDS), their location and what information they contain
- different machine cycle modes and methods for improving colour density of a light image on a dark substrate
- process for selecting the required machine cycle mode to provide the highest production output for a particular product
- required ink viscosity during production
- indications and causes of unreleased ink remaining on the printing pad
- process for identifying a damaged pad and the method of cleaning a pad during production
- signs of fault in equipment and enterprise personnel to report to

- pre- and post-treatment requirements and the simple pre-treatment commonly required for injection-moulded objects
- time ink on the job takes to cure before scratch and adhesion tests can be performed
- common print problems, their signs, and correction methods
- visible effects in the image if ink viscosity is incorrect
- machine adjustment process to correct shifts in image position on the product
- enterprise recycling requirements
- product quality standards and machine adjustment procedures to achieve them
- 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:

- pad printing machine
- 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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