



Australian Government

ICPPRN4110 Mount and demount flexographic plates for complex 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 mount and demount flexographic plates for non-routine printing.

It applies to individuals, working in the graphic pre-press sector of the printing and graphic arts industry. They design layouts and assemble text and graphics into page formats and set up, monitor and operate equipment and machinery as well as apply solutions to a defined range of problems associated with the print medium, and analyse and evaluate information from a variety of sources. 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 non-routine job specifications	1.1 Identify job requirements 1.2 Set up required printing machinery according to manufacturer specifications 1.3 Complete prior inspections and obtain sign off
2. Prepare flexographic plates	2.1 Measure plate height according to non-routine job specifications 2.2 Trim and prepare plates according to mounting system and

ELEMENT	PERFORMANCE CRITERIA
	work health and safety (WHS) requirements 2.3 Select mounting adhesive according to plate cylinder and gear requirements
3. Prepare plate cylinder	3.1 Select, clean, prepare and mount required plate cylinders, seamless sleeves and gears to meet non-routine job specifications 3.2 Check total indicated runout (TIR) to be within specified tolerances on plate cylinders 3.4 Apply selected mounting adhesive to plate cylinders
4. Mount and demount flexographic plates on mounting/proofing machine	4.1 Mount plates to position on plate mounting sheet or camera targets 4.2 Install plate mounting sheet and tension onto plate cylinder to specified chart number or print direction 4.3 Clean plate using cleaning solution and brush 4.4 Demount plate using required tools 4.7 Check plate for damage 4.8 Prepare plate for storage and store according to enterprise procedures

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Description
Numeracy	Uses simple mathematical calculations and arranges sequential numerical information
Self-management	Complies with and follows enterprise procedures relevant to own role
Planning and organising	Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for greater efficiency and assembles required resources
Problem solving	Responds to predictable problems and implements standard or logical solutions related to role in immediate work environment
Technology	Reads data from electronic monitoring and control systems

Unit Mapping Information

Supersedes and is equivalent to ICPPRN411 Mount and demount flexographic plates for complex 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 ICPPRN4110 Mount and demount flexographic plates for complex 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:

- mount and demount plates and install in a flexographic printing machine for different complex print jobs on two occasions according to job specifications.

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:

- work health and safety (WHS) risks and requirements for:
 - mounting and demounting plates, gears and cylinders
 - cleaning and waste disposal
- enterprise personnel to discuss production problems with
- common causes of photopolymer plates crazing on the image side
- printing plate resiliency and its purpose
- the advantages of thin photopolymer plates in process printing
- faults that may be detected on new plates
- types of solvents used on photopolymer plates
- benefits of optical mounting
- the purpose of binding plates after mounting
- print faults that can be eliminated by using a cushion mount
- the result of air being trapped under plates
- cushion mount selection for a particular job
- methods of eliminating low spots
- steps taken to minimise press bounce in jobs mounted more than one across
- causes of print slur
- checks and tolerances required for total indicated runout (TIR)
- methods of preventing or minimising plate lifting

- plate cleaning and demounting procedures that minimise damage, and visual signs of damage
- the method used to make registering the job easier on the press
- 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
- flexographic plates .

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

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