



Australian Government

ICPPRN3410 Set up for basic pad 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 basic pad printing for routine print jobs, including adjusting manual pre- and post-treatment processes and conducting a proof.

It applies to individuals who work under direct supervision, and have responsibility to prepare materials and monitor and run equipment and machinery to ensure the production process is maintained.

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 Set up required printing machinery according to manufacturer specifications and work health and safety (WHS) requirements 1.3 Confirm availability of all job components 1.4 Select and secure tampons into machine
2. Set up fixtures onto machine bed	2.1 Select and secure fixtures to xy table 2.2 Adjust height of machine bed according to object size 2.3 Adjust xy table of machine bed according to image position

ELEMENT	PERFORMANCE CRITERIA
3. Select and prepare inks and additives	3.1 Select inks and additives according to job specifications and end-user requirements and confirm they meet quality requirements 3.2 Prepare inks and additives according to manufacturer specifications 3.3 Mix and prepare colour and volume of ink to match requirements of the printing process 3.4 Record formulation of ink, colour match and approved colour 3.5 Label, handle and store inks and additives according to manufacturer specifications and hazardous liquids storage regulations
4. Set up machine for basic pad printing	4.1 Set up and adjust plate holder 4.2 Select plate and plate holder and secure into plate holder 4.3 Set up and adjust tampons 4.4 Prepare and adjust spatula, doctor blade and ink cup as required according to machine requirements
5. Set up manual pre- and post-treatment processes	5.1 Set up manual loading 5.2 Establish manual pre-treatment 5.3 Set up drying racks
6. Conduct proof run	6.1 Operate machine according to manufacturer specifications and enterprise procedures to produce specified proof 6.2 Inspect and test sample as required according to enterprise procedures 6.3 Seek client approval and authority prior to the production run as required 6.4 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	• Organises own workload under supervision, 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 ICPPRN341 Set up for basic pad 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 ICPPRN3410 Set up for basic pad 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 pad printing machine on two occasions for routine print jobs to meet enterprise procedures, manufacturer and job specifications; including setting up manual pre- and post-treatment processes and completing a proof run.

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:

- work health and safety (WHS) risks and requirements for:
 - setting presses and handling doctor blades
 - using pre- and post-treating substrates
- the class of substrate the (given) object came from
- steps taken to determine if an ink can be used with a particular substrate
- steps taken to determine if an ink is mixed to the required viscosity
- the pot life of a two-component ink
- steps taken to determine the required pad shape for applications
- the effect pad shape and hardness has on print quality
- the required storage conditions for pads
- the steps taken to determine the required plate type for given applications
- techniques for adjusting the machine so the doctor blade operates as required
- the effect of a damaged doctor blade
- the procedure for pre-treating an oily surface to ensure it is ready for printing
- the causes of and solutions for common print problems including:
 - hairlines around image

- loss of density in the centre of a solid image
- fine lines of ink running through image
- distortion of image
- 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
- pad printing machinery.

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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