



Australian Government

Assessment Requirements for ICPPRN4410

Set up for complex 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.

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 machine for complex pad printing on two occasions according to manufacturer and job specifications and enterprise procedures.

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 up and operating machinery
 - handling setting presses and doctor blades
 - pre- and post-treating substrates
 - handling inks and additives
- different substrate groups and the ink type for each group
- quality requirements for inks and additives
- plastic subgroups and their required ink selection
- adjustments required to process colour inks for required colour balance
- methods to improve opacity of a light coloured ink on a dark substrate
- the required pad shape and plate type for different applications
- the effect pad shape and hardness have on print quality
- the effect commonly seen at the contact point of the nipple of a pad in a large solid print, and methods for avoiding it
- the procedure for preparing a new pad for its first printing
- the difference between steel and photopolymer plates for process printing
- reasons for mis-registered images and correction methods
- machine adjustment procedures ensuring the doctor blade operates
- different types of doctor blades, their applications and consequences of a damaged blade

- common pre- and post-treatment methods for different substrates and their importance
- 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 and loss of fine lines
 - distortion of image
 - picking up ink from substrate by subsequent pads
 - washed out images and inconsistent colour
- 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

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>