



Australian Government

Assessment Requirements for ICPPRN441

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 1.0.

Performance Evidence

Evidence of the ability to:

- set up a machine for complex pad printing on TWO occasions (if possible, on different substrates) according to manufacturer's and job specifications, enterprise procedures and the performance criteria.
- set up pad printing machines for non-routine print jobs, including for manual pre- and post-treatment processes
- conduct a proof run and adjust settings to ensure production speeds are attained

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- identify different substrate groups and suggest correct ink type for each group
- identify plastic subgroups for purpose of ink selection
- explain how adjustments are made to process colour inks for correct colour balance
- describe methods of improving opacity of a light coloured ink on a dark substrate
- determine correct pad shape for (given) applications
- describe the effect pad shape and hardness have on print quality
- describe the effect commonly seen at the contact point of the nipple of a pad in a large solid print, and how can it be avoided
- explain how to prepare a new pad for its first printing
- determine the correct plate type for (given) applications
- outline the difference between steel and photopolymer plates for process printing
- provide reasons for mis-registered images and how can they be corrected
- identify work health and safety (WHS) concerns of setting presses and doctor blades
- describe adjustments made to the machine so the doctor blade operates correctly

- outline consequences of a damaged doctor blade
- identify different types of doctor blades and explain their applications
- identify WHS concerns of pre- and post-treating substrates
- describe common pre- and post-treatment methods for different substrates and their importance
- identify causes of, and solutions for, common print problems (e.g. hairlines around image, loss of density in the centre of a solid image, fine lines of ink running through image, distortion of image, picking up ink from substrate by subsequent pads, washed out images, loss of fine lines in images, inconsistent colour)
- locate machine manuals, safety and other documentation relevant to this task and outline the information included in them.

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, including a pad printing machine.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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