



Australian Government

Assessment Requirements for ICPPRN4510

Set up for complex relief 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 relief printing machine for complex printing on two occasions according to manufacturer and job specifications, enterprise procedures and work health and safety (WHS) requirements.

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:

- enterprise procedures, manufacturer specifications and work health and safety (WHS) risks and requirements for:
 - setting up and operating the reel and sheet delivery and transportation systems
 - installing printing cylinders in the machine
 - webbing up and setting up the machine
 - slitting on a machine and operating in-line units
 - preparing and handling inks and additives
- enterprise personnel and escalation procedures
- solvents to use on photopolymer plates
- purpose of binding plates after mounting and types of mounting
- checks required for installing machine components, setup and operation
- the purpose of machine frames, and keeping unit slides clean
- the required print sequence
- features and functions of sections of the machine in all systems, issues that can arise and methods to resolve them, including:
 - transportation and delivery
 - in-line processing and printing units
 - the rewind unit

- drying and curing
- plates, cylinders, rollers and blankets
- inks and additives required for job, their applications, key features, common issues and adjustment procedures
- quality and suitability requirements for inks and additives
- ink and additive labelling and storage procedures, and factors affecting shelf life
- cleaning and waste management procedures for machine components
- circumstances requiring mixing additives into ink and any special end-use requirements
- precautions to ensure plate and cylinders are not damaged during installation
- web splices required, common issues and adjustment procedures
- problems arising from deviations in tension on machine components
- reason for blistering on a heat set machine
- embossing and top cutting procedures, and their benefits
- front lays, their purpose, substrate they are applied to, and selection criteria
- required adjustments when changing stock weight or print length
- problems from excessive use of anti-set off spray powder
- causes of print sheets set off in delivery and adjustment methods
- packing required in the tympan, and its ideal condition
- process for determining printing pressure
- the procedure of achieving required top sheet tension when fitting a new tympan
- process for determining required ink duct setting
- the effect of differing tooth counts on perforated products
- proofing tests and adjustment procedures, problems that may occur and visual aids
- problems that may cause the machine to keep stopping
- the effect of certain guards on machine operation
- machine operating steps requiring communication to other team members
- the function of a polarisation filter in a densitometer
- adjustments that may cause mis-register
- adjustments to position the image laterally and circumferentially
- the effects of changes in colour sequence on the final colour cast
- mechanical and optical dot gain and correction methods
- the final approval process before a print run
- 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
- reel or sheet-fed platen, cylinder or rotary printing machine.

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>