



Australian Government

Assessment Requirements for ICPPRN4210

Set up for complex gravure 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 gravure printing machine for a complex job on two occasions according to manufacturer specifications and enterprise procedures.

In the course of the above the candidate must:

- demonstrate use of control, monitoring and data entry systems.

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:
 - installing printing cylinders on the machine
 - setting up and operating the machine and delivery section
 - webbing up the machine
 - slitting on the machine
 - preparing inks and additives
- enterprise escalation procedures and required personnel
- required print sequence
- the visual aid on the cylinder that identifies ink colour to be used
- precautions required to ensure cylinders are not damaged during installation
- inks required in the printing process, their attributes, functions, tests and common issues
- ink and additive labelling and storage procedures, and ink shelf life
- doctor blades, their application, and correction methods for any issues that may arise
- components of the web-fed system, their function, common issues and adjustment parameters

- techniques and procedures for:
 - controlling the ratio of print to in-line speed
 - determining make ready speed for job and communicating steps to team members
 - metallising substrates and testing metallised surface for coating thickness and printing side
- problems arising from:
 - incorrect brake or rewind tension
 - excess printing and slitter pressure
 - using an over-reduced ink
 - excessive use of slow solvents
 - cold seals in printing
- purpose and functions of:
 - air blast in sheet delivery
 - additives in gravure inks
 - punching a printed product
 - dwell when cutting or creasing in-line
 - grading drying speeds of each progressive colour
 - using thermal imaging face stocks
- the causes of various errors and faults, and correction methods, such as:
 - deviations in required web or print area tension
 - a telescopic roll
 - picking in printing multi-coloured work
- special end-use requirements
- viscosity checks, automatic controllers and correction procedures
- precautions required to minimise waste when preparing ink
- drying procedures required for a job and key precautions
- pre-heat web temperature required for lamination
- effect of annealing on aluminium foil
- client requirements for bar codes
- instrument used to identify retained solvent trapped in the print
- enterprise personnel with responsibility for final say regarding job approval
- 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
- gravure 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>