



Australian Government

Assessment Requirements for ICPPRN322 Produce complex gravure printed product

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:

- operate a gravure press ensuring an efficient non-routine production flow that maintains product quality standards; any production problems are rectified with minimum downtime; and the machine is correctly shut down and cleaned according to work health and safety (WHS) guidelines
- monitor production output and make necessary adjustments to maintain print quality on a gravure machine while producing a complex print on TWO occasions (if possible using different substrates and, if possible, including at least two in-line processes) according to job specifications and enterprise procedures.

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:

Reel transportation and web control

- identify what can cause the reel to wander
- describe what can cause the web to break at the unwind unit
- outline the difference between a “flying paster” and “zero speed” type reel-stand
- discuss what print fault results from the reel being run out of centre
- describe types of faults in the unwind section which can cause a web break

Reel delivery for rewinding and sheeting

- discuss WHS risks associated with rewinding and sheeting
- describe the safety feature in the delivery system for when the web jams
- discuss the cause of sheet cut-off wander
- outline effects of poorly adjusted nip rollers when rewinding and sheeting

Printing and drying unit

- discuss how a build-up of ink on the impression cylinder can affect printed product
- outline the cause of ink foaming in the ink tray
- describe the effect of too much reducer in the ink
- identify how to reduce doctor blade wear
- describe why it is necessary to remove all solvents from the final ink film
- discuss the link between driers and set-off and marking
- identify what causes the substrate to distort
- discuss what happens in the chillers if the drying temperature is too low
- outline the effect of incorrect drying temperature on finished product

In-line processes

- discuss why it is necessary to frequently examine in-line components of the job
- outline how consistency of the punching unit is checked
- describe the impact of excessive pressure on the slitters
- discuss the benefit of identification numbers on jobs with multiple similar images
- describe how the ratio of print to in-line speed is controlled

Maintaining production process

- discuss possible effects of inadequate communication within the work team on a gravure printing machine
- describe safety features within the organisation which aid in maintaining effective production
- identify ramifications if machine guards are removed and/or micro switches are disconnected on a machine
- name the person held legally responsible for the removal of machine guards and/or disconnection of micro switches
- discuss the most accurate method of checking register during a production run
- outline why it is necessary to take immediate action when production problems are anticipated
- describe what to do to eliminate further processing of unacceptable printed product
- discuss what happens to the substrate if the relative humidity increases in the press room
- outline the correct procedure to care for a newly delivered substrate to the press room
- discuss why waste should be sorted
- describe advantages of keeping reusable waste
- outline industry standards to enhance effective communication with clients
- discuss procedures a client should follow to OK a printed product

Gravure machine operating problems

- describe when it is necessary to call service personnel to correct a machine problem
- identify enterprise procedures to report machine operating problems

Shutdown procedures

- discuss what happens if correct shutdown procedures are not followed

- describe why it is necessary that correct shutdown procedures are conducted with fellow workers
- outline advantages of proper labelling and storage of excess inks and materials
- discuss why printed product should be clearly labelled prior to removal from the press room
- outline further operations required for printed reels after removal from the printing machine
- describe how printed jobs should be stored after removal from the printing machine

Cleaning and washing the printing unit

- list WHS concerns of handling ink
- outline safety precautions for cleaning the printing cylinders
- discuss why it is necessary to thoroughly clean and wash the printing unit prior to the next print run
- describe why the doctor blades should be thoroughly cleaned
- explain why doctor blades should be handled with extreme care
- describe how to store printing cylinders to minimise damage

Cleaning feed, transportation, delivery and in-line sections

- list WHS precautions for cleaning these sections of the machine
- discuss why it is necessary to maintain a clean substrate handling section of the machine

Completing production records

- outline how completed records are used in the final analysis of the job
- describe benefits of comprehensive records when considering production of future jobs
- identify what machine manuals, safety and other documentation are relevant to this task, where they are kept and describe the information contained.

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 machines and in-line units.

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>