



**Australian Government**

# **Assessment Requirements for ICPPRN331 Set up for basic lithographic 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:

- demonstrate use of control, monitoring and data entry systems
- demonstrate all safety devices on the machine
- set up for TWO basic lithographic printing jobs using either a wide or narrow reel or sheet-fed lithographic machine according to manufacturer's specifications and enterprise procedures and 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:

Interpreting job specifications

- explain what to do if vital information is missing from the job ticket
- explain checks to be done prior to set-up e.g. availability of materials

Preparing and fitting plates

- list problems that can result if the cylinder is not cleaned prior to plate fitting
- explain how the grip edge of the plate is identified
- describe the effect of over packing the printing plate cylinder
- discuss how pitch lines can be used to assist in plate installation
- name tools or actions likely to damage the plate
- explain why plates should be consistently tensioned

### For reel systems only

#### Reel in-feed

- identify work health and safety (WHS) precautions for webbing up the machine
- discuss how to determine the printing side of the material
- explain the effect of low web tension on the print
- explain the purpose of nip rollers
- identify types of web splices appropriate for the job

#### Reel delivery system

- describe the effect of excessive web tension at the rewind of the machine
- list risks associated with the rewind of the machine

### For sheet systems only

#### Sheet in-feed and transfer

- identify WHS factors to be considered when setting up sheet in-feed and transfer systems
- explain why the sheet is normally set up in the middle of the machine
- describe the effect of side lay selection on the job
- explain how to determine the position of the sheet before it is transported to the printing unit
- outline how a register check is carried out
- describe why a two-sheet cut is used on most feeders
- explain how the machine knows if a sheet is missing or late
- explain why the application of spray powder is sometimes advisable
- explain the effects of too much spray powder
- explain why slowdown devices might be used in delivery
- outline the effect of excessive jogging on the stack

#### Preparation of inks and additives

- identify all WHS and environmental concerns associated with inks and additives
- explain what details to check for suitability of an ink for a job
- describe how to modify ink that is slightly light
- outline methods available to check ink for correct colour
- identify who passes the colour prior to running the job

#### Machine set-up

- list all work health and safety (WHS) factors to consider when setting up the machine
- explain how cylinder (plate, blanket and impression) specifications are determined for the specific job
- explain effects an incorrectly set dampening system may have on the job
- explain why ink profile varies across the machine

- explain what optimum ink duct sweep is

#### Basic in-line processes

- explain the correct machine position to engage in-line processing units
- list essential precautions required when setting up in-line processing units
- outline necessary precautions if UV drying is utilised to dry the ink film

#### Proofing and adjustment

- identify methods to minimise waste during make ready
- describe what to check on the initial print prior to running
- explain how the machine is proof tested
- outline ideal conditions for inspecting the proof
- describe methods to check and adjust ink colour and consistency
- identify adjustments that may cause mis-register
- list adjustments to position the image laterally
- identify adjustments to position the image circumferentially
- identify who has the final say in the approval of the job

#### Information sources

- identify machine manuals, safety and other documentation relevant to this task, where are they kept and 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
- lithographic machine.

Assessment processes and techniques must be able to be modified for distance-based learners and be culturally appropriate and suitable to the communication skill level, language, literacy and numeracy capacity of the candidate and the work being performed.

Additional support may be needed for the Indigenous community and others from a non-English speaking background.

Where applicable, physical resources should include equipment modified for people with special needs as well as assistance to support their participation in the assessment process.

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>