



**Australian Government**

# **Assessment Requirements for ICPKNW312 Apply knowledge of printing machining**

**Release: 1**

# Assessment Requirements for ICPKNW312 Apply knowledge of printing machining

## 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:

- use appropriate vocabulary and terminology in written and oral communications with tradespeople, colleagues, management or clients
- apply relevant legislative and workplace requirements when completing tasks
- keep up to date with trends in the printing industry
- develop general processes and strategies for printing that consider image type and placement, colour, output devices and settings, and output requirements
- apply the correct process for a print job
- choose the correct products for a converting or finishing job
- choose appropriate substrate, colour and ink for different print jobs
- use a colour management system to determine colour requirements for a print job
- accurately plan, cost and document a print job.

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:

- describe legislative and enterprise requirements that affect work practice
- describe the basic principles of the following printing processes:
  - lithography
  - relief
  - flexography
  - gravure
  - pad printing
  - screen printing
  - digital and electronic printing
- describe the range of substrates used for each printing process
- describe designs that are appropriate for different printing processes
- describe the basic principles behind the following pre-press functions:
  - image production (typesetting, scanning, graphic arts camera)
  - image combining (manual and electronic)
  - image output (film, plates, direct to press)
- describe the basic characteristics of the following converting and finishing processes:
  - guillotining
  - flat-bed and rotary cutting
  - collating
  - folding
  - adhesive
  - mechanical and thermal fastening
- describe the relationship between ranges of visual colour: Red, Green, Blue (RGB) and Cyan, Magenta, Yellow, Key (black) (CMYK)
- explain the main cost elements in pre-press production
- explain the basic principles of efficient production management.

## 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 industry and include access to:

- special purpose tools, equipment and materials
- industry software packages.

Assessors must satisfy NVR/AQTF assessor requirements.

## Links

Companion volumes are available from the IBSA website:

[http://www.ibsa.org.au/companion\\_volumes](http://www.ibsa.org.au/companion_volumes) - [http://www.ibsa.org.au/companion\\_volumes](http://www.ibsa.org.au/companion_volumes)