



Australian Government

ICPKNW3220 Develop and apply knowledge of the printing and graphic arts industry

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.

Application

This unit describes the skills and knowledge required to work in or deal with individuals in various sectors of the printing and graphic arts industry.

It applies to individuals who require detailed technical knowledge in particular areas of the industry, together with a working knowledge of related areas. Individuals need the skills to facilitate technical communication and to work as a member of a team.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Holistic knowledge

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Research the printing and graphic arts industry	1.1 Identify new technology and innovative work processes and suggest for implementation according to enterprise procedures 1.2 Research printing industry trends and apply to personal work practices within scope of own role 1.3 Research basic principles and obligations of regulations, standards and industrial awards within the workplace and personal work practices
2. Determine printing and graphic arts industry information required for work task	2.1 Identify information requirements for work task 2.2 Determine information required and process to accurately cost work task 2.3 Identify information required to be exchanged between

ELEMENT	PERFORMANCE CRITERIA
	different stages of production to facilitate work task 2.4 Identify principles of production management and determine requirements specific to work task 2.5 Identify principles of quality management and determine quality requirements for work task
3. Apply knowledge of printing and graphic arts industry to work tasks	3.1 Identify job specifications 3.2 Confirm job budget and timeframe 3.3 Research suitable printing processes to meet job requirements 3.4 Plan and document proposed approach to production 3.5 Seek feedback on proposed approach from required personnel and adjust as required

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Numeracy	• Uses mathematical techniques to estimate quantities, usage and costs • Interprets and analyses mathematical information included in texts
Learning	• Identifies and adheres to relevant industry standards, regulatory requirements and enterprise procedures • Monitors trends and identifies concepts, principles and features of approaches for use in new contexts
Problem Solving	• Plans, organises and implements systems and activities to achieve efficient and effective outcomes • Analyses and evaluates information to solve problems and make decisions • Identifies and implements routine procedures to complete tasks
Technology	• Selects and uses digital technologies to access, organise, store and share information

Unit Mapping Information

No equivalent unit. Supersedes but is not equivalent to ICPKNW322 Develop knowledge of the printing and graphic arts industry.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>

Assessment Requirements for ICPKNW3220 Develop and apply knowledge of the printing and graphic arts industry

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of the unit, including evidence of the ability to:

- plan and document proposed production approach for one print job that includes at least one converting or finishing process, based on job specifications, including:
 - job costing estimate
 - timeframe for production.

In the course of the above the candidate must:

- use industry terminology in written and oral communications
- apply required legislative and workplace requirements when completing tasks
- conduct research to determine image type, output settings, output requirements and output devices for different jobs
- conduct research to determine the required process for print jobs
- conduct research to determine the required process for converting or finishing jobs
- document output and colour requirements for print jobs
- conduct research to determine required substrate and ink for print jobs.

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:

- current industry technology, processes and trends
- regulatory requirements and enterprise procedures that affect work practice
- enterprise procedures for:
 - allocating production responsibilities
 - monitoring production
 - quality inspections and corrective action

- requesting client feedback
- principles of the following pre-press functions:
 - image production, including, typesetting, scanning and photography
 - manual and electronic image combining
 - film, plates, and direct to press image output
- principles of the following printing processes:
 - lithography
 - relief
 - flexography
 - gravure
 - pad printing
 - screen printing
 - digital and electronic printing
- range of substrates used for printing processes
- basic characteristics of the following converting and finishing processes:
 - guillotining
 - flat-bed and rotary cutting
 - collating
 - folding
 - adhesive
 - mechanical and thermal fastening
- colour theory and the relationship between ranges of visual colour Red, Green, Blue (RGB), Pantone (spot) and Cyan, Magenta, Yellow, Key (black) (CMYK)
- cost and time factors in printing production, including:
 - fixed, capital and variable costs
- basic principles of efficient production management.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the area of work.

This includes access to:

- a production environment as required to demonstrate the performance evidence.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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