Australian Government

ICPKNW321 Apply knowledge and requirements of digital production

Release: 1

INDUSTRY
SKILLS
COUNCILS
Creating Australia's Future

ICPKNW321 Apply knowledge and requirements of digital production

Modification History

Release	Comments
Release 1	This version first released with ICP Printing and Graphic Arts Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to work in or deal with digital printing systems in the printing industry.

It applies to individuals who are responsible for assisting and dealing with digital production workflow, such as job creation, printing and finishing, and who have the ability to work as part 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
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Apply knowledge of printing industry	1.1 Printing industry terminology and vocabulary are used correctly
	1.2 New technology and new work processes are monitored and implemented when required
	1.3 Trends within printing industry are monitored, on an ongoing basis, to inform personal work practices
2. Apply knowledge of government Acts and regulations	2.1 Basic principles and obligations for copyright, work health and safety (WHS), environmental protection, access and equity, and industrial awards are researched and evaluated
	2.2 Basic principles and obligations for copyright, WHS, environmental protection, access and equity, and industrial awards are applied in workplace
3. Apply knowledge of digital production processes	3.1 Principles behind basic layout production, image manipulation, digital output and workflow are identified and applied where possible in workplace
	3.2 Proofing processes and principles are applied to meet client needs
	3.3 Raster image processor (RIP) and front-end processer functions are applied to meet job specifications
	3.4 Effective use of software applications for producing digital products is evaluated
4. Apply knowledge of digital printing processes	4.1 Basic principles of toner, inkjet or liquid toner-based printers are evaluated to inform decisions made for different jobs
	4.2 Types of jobs and products for each process are considered to ensure appropriate choices are made to meet client needs
	4.3 Capabilities and limitations of each process are reviewed for different jobs
5. Apply knowledge of substrates and consumables	5.1 Range of substrates used for each printing process are researched and evaluated for different jobs
	5.2 Different weights and callipers of substrates and how they affect digital production operations are researched and evaluated for different jobs
	5.3 Paper grain and how it affects digital production and finishing

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ELEMENT	PERFORMANCE CRITERIA
	operations are researched for different jobs
	5.4 Different properties of digital consumables, and how they affect digital production operations, are researched for different jobs
6. Apply knowledge of colour theory	6.1 Colour theory is used to inform digital production and/or design decisions
	6.2 Colour matching systems are used to inform digital production and/or design decisions
	6.3 Procedures that ensure effective colour management are implemented
7. Apply knowledge of converting and finishing processes	7.1 Basic characteristics of converting and finishing processes are identified and considered for different jobs
	7.2 Types of processes are evaluated and used to inform decisions made for different jobs
8. Demonstrate knowledge of production management systems	8.1 Types of information that need to be exchanged between different stages of production to facilitate production efficiency are identified and used to inform development decisions
	8.2 Information technology systems that can be used to exchange information between and within companies are identified and used
	8.3 Efficient production management information systems are established and applied to inform development decisions

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Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.3, 2.1, 3.3, 8.1	• Researches and comprehends information in a range of text types from various sources • Recognises and interprets text to establish the job requirements from information contained within relevant procedures and specifications
Oral Communication	1.1	• Participates effectively in spoken interactions using correct technical and enterprise specific vocabulary
Numeracy	5.2	• Interprets and analyses a range of mathematical information that is used in familiar and routine tasks
Navigate the world of work	1.2, 1.3, 2.1, 2.2	• Maintains knowledge of the printing industry required for current role • Complies with legislative requirements and follows organisational policies and procedures relevant to own role
Get the work done	1.2, 1.3, 2.1, 2.2, 3.1-3.4, 4.1-4.3, 5.1-5.4, 6.1-6.3, 7.1, 7.2, 8.1-8.3	• Determines priorities and sequences the steps involved in clearly defined, familiar tasks and aims to achieve them efficiently • Identifies and assembles the resources required • Makes decision by considering benefits, costs, risks and feasibility from a broad range of perspectives • Recognises the potential of new approaches to inform personal work practices • Responds to predictable problems and implements standard or logical solutions related to the role in the immediate work environment • Considers the strategic and operational potential of digital trends to achieve work goals, enhance work processes and evaluate software functions for specific purposes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPKNW321 Apply knowledge and requirements of digital production	ICPKN321A Apply knowledge and requirements of digital production	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion volumes are available from the IBSA website:
http://www.ibsa.org.au/companion_volumes - http://www.ibsa.org.au/companion_volumes