



Australian Government

ICPPRN3820 Produce and manage complex digital print

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 produce and manage digital print in a complex print production environment by constructing and accessing complex electronic data, performing colour digital management and adjusting machine settings to ensure production and print quality are maintained.

It applies to individuals who possess a sound theoretical knowledge base, who typically provide leadership and use a range of specialised and technical skills in the commercial print, pre-press, bureau, high-end digital print or a combination of these business environments.

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

Unit Sector

Printing

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. Troubleshoot and correct production workflows for digital printing	1.1 Conduct productivity analysis on a digital production system is and determine approach according to job specifications 1.2 Develop workflow procedures for digital printing according to equipment availability and production environment 1.3 Identify and rectify possible causes of problems in workflow procedures, and develop strategies to improve productivity 1.4 Undertake preventive maintenance on digital printing system according to manufacturer specifications

ELEMENT	PERFORMANCE CRITERIA
2. Liaise with clients	2.1 Communicate print services, quality expectations and print costing for digital printing to client according to enterprise procedures 2.2 Communicate productivity advantages and disadvantages of different digital print options according to enterprise procedures 2.3 Calculate turnaround times and communicate to client
3. Confirm job specifications	3.1 Identify job specifications 3.2 Confirm availability of all job components 3.3 Check scanning, proofing and finishing requirements of job and coordinate internal workflow and outsource arrangements as required 3.4 Determine run and completion time of job
4. Access, verify and submit electronic data files to a digital printer	4.1 Locate and retrieve electronic data files according to job specifications 4.2 Perform required preview and pre-flight checks on electronic data files and verify job set up according to job specifications 4.3 Determine job priority to job specifications and production schedules 4.4 Submit data file to print and conduct image quality and machine productivity checks and make adjustments as required
5. Perform complex digital colour management	5.1 Use digital colour management solutions to minimise variation in various digital colour attributes 5.2 Use red, green, blue (RGB), cyan, magenta, yellow and key black (CMYK) and pantone matching system (PMS) colour charts to perform colour matching with client proof 5.3 Make recommendations on colours to use when producing electronic data files according to job specifications 5.4 Perform colour matching of an electronic data file using RGB colour model and customise an output profile
6. Perform document proofing	6.1 Conduct digital proof 6.2 Facilitate communication between client and proofing provider and confirm proof meets job specifications
7. Perform and/or coordinate document finishing and client delivery	7.1 Determine finishing method according to job specifications 7.2 Identify steps required for document finishing and perform on in-line finishing units as required according to enterprise

ELEMENT	PERFORMANCE CRITERIA
	procedures 7.3 Package and present finished print work according to delivery requirements

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
Writing	Enters routine data associated with production processes and enterprise procedures
Numeracy	Interprets and analyses a range of mathematical information used in familiar and routine tasks
Self-management	- Works independently and collectively within broad parameters, with a strong sense of responsibility and ownership of goals, plans, decisions and outcomes - May seek to make implicit protocols and expectations more explicit, and may challenge those who appear to work against effective outcomes, or do not reflect stated values, decisions and outcomes
Teamwork	Collaborates with others to achieve joint outcomes, playing an active role in facilitating effective group interaction, influencing direction and taking a leadership role on occasion
Planning and organising	- Determines priorities and sequences steps involved in clearly defined, familiar tasks - Takes responsibility for planning and organising own workload using analytical processes to decide on a course of action, and assembles required resources
Problem solving	Identifies and anticipates an increasing range of complex problems, their symptoms and causes, actively looking for early warning signs and implementing contingency plans

Unit Mapping Information

Supersedes and is equivalent to ICPPRN382 Produce and manage complex digital print.

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 ICPPRN3820 Produce and manage complex digital print

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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 this unit, including evidence of the ability to:

- manage a complex digital proof run and produce a digital print for at least two different jobs according to enterprise procedures.

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:

- problem-solving strategies for when:
 - a required piece of equipment or substrate type in production workflow is unavailable
 - a power failure coincides indefinitely with a tight deadline production schedule
 - data file transfer and access errors occur
 - a scanned image is too dark
- factors influencing a decision on using a particular printing solution such as run length, substrate type and application
- digital colour attributes where variation must be minimised and solutions, including:
 - colour selection, lighting conditions and surrounding colour
 - machine calibration and resolution
 - screen angle
 - conversion algorithms from red, green, blue (RGB) to cyan, magenta, yellow and key black (CMYK)
 - substrate type and condition
- work health and safety (WHS) requirements for working on a computer
- enterprise communication protocols with the client and client approval procedures for proof and final print
- recommendations for clients who use incompatible electronic files and software versions

- cost, quality and turnaround time differences between a specified job printed on a digital system and a traditional system
- required print method for the specified print job
- key differences between digital printing and traditional printing methods
- RGB, CMYK and Pantone matching system (PMS) colour charts and their function in enterprise procedures
- recommendations for clients requiring high-volume print runs who need a print job portion immediately
- procedures for submitting a Portable Document Format (PDF) file to a digital printer
- effect of scan resolution on document size and quality
- actions required if vital information is missing from the job ticket (manual or electronic)
- checks required prior to set-up (including availability of material, maintenance etc)
- checks for data format compatibility with digital print and before submitting file to print
- optical character recognition (OCR) scanning
- type of scanner hardware and software configuration available to digitally scan a hardcopy multi-page document with text and images
- differences between colours displayed on different outputs and role of simulation profiles
- International Colour Consortium (ICC) and its purpose
- circumstances where a job can be modified before printing, including changing margins
- type of proofing system available in traditional pre-press and proof checking criteria
- recommendations available regarding the required proofing system for a specified print job
- various types of binding and procedures for when client's required binding is unavailable
- procedure for and purpose of packaging finished print work
- manufacturer manuals, enterprise procedures and work health and safety documentation, including their location and purpose.

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
- digital printing machine
- digital production system.

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

Links

Companion Volume Implementation Guide is found on VETNet -

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