



Australian Government

ICPPRN387 Use colour management for production

Release: 2

ICPPRN387 Use colour management for production

Modification History

Release	Comments
Release 2	This version released with ICP Printing and Graphic Arts Training Package Version 2.0. Version created to correct typographical error.
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 obtain an acceptable match across colour devices, including the correct use of colour profiles and calibration of monitors and output devices.

It applies to skilled individuals who set up, operate and monitor equipment and machinery, and who may have to prepare material and apply solutions to problems. They may also provide leadership and guidance to others, with limited responsibility for the output of others.

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

Pre-requisite Unit

ICPPRN284	Use colour management systems
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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>

ELEMENT	PERFORMANCE CRITERIA
1. Identify colour requirements	1.1 Publication conditions are determined to identify colour management requirements 1.2 Requirements are established to guide provision and use of colour profiles
2. Calibrate digital devices	2.1 Digital devices in the workflow are calibrated to produce accurate colour reproductions 2.2 Device profiles created during calibration are correctly used and stored 2.3 Digital devices are checked regularly to ensure they are still within calibration 2.4 Profiles or equipment parameters are adjusted to bring devices back into calibration, when required 2.5 Records are stored to ensure calibration occurs regularly
3. Use colour profiles	3.1 Source and destination profiles are identified within the workflow 3.2 Profiles are used to ensure colour on monitors, proofs and final product match as closely as possible 3.3 Images are converted to correct profile if incorrect profile is embedded 3.4 Correct rendering intent is used to ensure accurate colour conversion
4. Configure software within workflow	4.1 In the workflow, software applications with colour management features are determined 4.2 Software applications with colour management features are configured to meet output condition 4.3 Range of colour management presets are configured, saved and correctly used for various output conditions
5. Maintain colour management workflow	5.1 Colour management system is checked regularly to ensure consistent colour match 5.2 Monitors are calibrated regularly to ensure accurate reproduction of colour 5.3 Digital devices are re-calibrated regularly or when conditions change from initial calibration

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	2.5	Recognises and interprets text to establish job requirements from information contained within relevant procedures and specifications
Writing	2.5	Enters routine data associated with production processes and enterprise procedures
Navigate the world of work	1.1, 1.2, 2.1-2.5, 3.1-3.4, 4.2, 4.3, 5.1-5.3	- Recognises and follows explicit and implicit protocols and meets expectations associated with own role - Complies with work health and safety (WHS) and legislative requirements and follows organisational policies and procedures relevant to own role
Get the work done	1.1, 1.2, 2.1-2.4, 3.1-3.4, 4.1-4.3, 5.1-5.3	- Takes responsibility for planning and organising own workload, and assembles required resources - Recognises and takes responsibility for addressing predictable, and some less predictable, problems in familiar work contexts - Utilises a broad range of features within applications to improve personal productivity, optimising software functions for specific purposes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPPRN387 Use colour management for production Release 2	ICPPRN387 Use colour management for production Release 1	Updated to correct typographical error	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for ICPPRN387 Use colour management for production

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Performance Evidence

Evidence of the ability to:

- correctly produce THREE jobs with final product on varied media, including both print and digital platforms
- apply colour management system maintenance procedures according to enterprise procedures and job specifications.

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:

- identify work health and safety (WHS) issues related to managing colour for digital production
- define densitometric and spectrophotometric measurement
- define International Colour Consortium (ICC) profiles, their use and the effects they can have on output
- explain device independent colour and profile connection spaces
- outline use of colour space conversions and rendering intents
- describe factors that influence selection of highlight and shadow aim points
- explain grey balance requirements in relation to colour correction and the process of determining grey balance requirements
- describe ink/toner light errors – ‘ideal’ versus ‘actual’ inks/toners

- explain viewing light conditions and metamerism
- outline factors determining requirements for colour correction and how different stocks affect colour
- describe effects different inks have on colour reproduction for proofing and final production, and how dot gain affects colour
- identify type of press and what printing process is being used for final output
- describe solutions to common problems of colour management
- describe effects of using the wrong profile on output
- identify sources of information on colour 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 field of work and include access to special purpose tools, equipment and materials.

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

Links

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