



Australian Government

ICPPRN4950 Set up and use complex colour management for production

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 create profiles and finger-print presses to obtain the best match across colour devices.

It applies to individuals who undertake complex colour management techniques to customise a workflow in their particular workplace.

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

Pre-requisite Unit

ICPPRN3870 Use colour management for production

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. Finger-print press	1.1 Select and produce test charts as required 1.2 Prepare press according to enterprise procedures and work health and safety (WHS) requirements 1.3 Print test chart
2. Measure press test charts	2.1 Calibrate colour measurement devices and measure printed test charts

ELEMENT	PERFORMANCE CRITERIA
	2.2 Measure multiple charts and record results 2.3 Use software to average multiple measurements
3. Create and use custom press profiles	3.1 Select reference file to match printed chart 3.2 Use profiling software to create an output press profile from the averaged measurement file and test profile and edit as required 3.3 Insert profile into colour workflow
4. Maintain custom colour management workflow	4.1 Monitor and record printing conditions according to enterprise requirements 4.2 Calibrate digital devices as required

Foundation Skills

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

Skill	Description
Writing	Completes records according to enterprise requirements
Numeracy	Uses colour measurement devices to perform calculations in relation to colour profiles
Self-management	Complies with enterprise procedures relevant to own role
Planning and organising	Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for greater efficiency and assembles required resources
Problem solving	Responds to predictable problems and implements standard or logical solutions related to role in immediate work environment
Technology	Utilises a broad range of digital features optimising software functions for specific purposes

Unit Mapping Information

Supersedes and is equivalent to ICPPRN495 Set up and use complex colour management for production.

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 ICPPRN4950 Set up and use complex colour management for production

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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:

- create three custom device profiles to be used within a colour workflow
- produce at least two final products from the colour workflow.

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:

- work health and safety (WHS) risks and requirements for managing colour for digital production
- the process of optimising press to workplace standard
- the purpose of bringing a device into a known state
- the required frequency of device calibration and condition changes requiring re-calibration
- colour measurement devices and proprietary software and their usage
- comparison of test charts, their advantages and disadvantages
- the process of determining grey balance and white points
- colour profiles, their use and the effect they have on output
- the difference between input, output and display profiles
- various colour management systems and their components
- components of a colour-managed workflow
- the differences between red, green blue (RGB) and cyan, magenta, yellow, black (CMYK), as well as spot colour and mixed colour workflows
- the steps taken to implement colour management on a system
- workplace and international publications and printing standards
- the effects different substrates have on colour reproduction for proofing and final production
- the effects dot gain has on colour
- under colour removal (UCR) and grey component replacement (GCR)

- 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:

- printing presses
- raster image processors (RIPs) with colour management features
- profiling software
- colour output devices.

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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