



Australian Government

ICPPRP4300 Manage colour

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 manage colour in pre-press operations to ensure proofs, monitors and final products match requirements.

It applies to individuals who work in the graphic pre-press sector of the printing and graphic arts industry. Individuals may also take responsibility for production flow and provide leadership and guidance to others with some limited responsibility for the output of others.

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

Unit Sector

Pre-Press

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. Identify colour requirements	1.1 Determine printing conditions to identify colour management requirements 1.2 Establish printer's requirements to guide provision and use of International Colour Consortium (ICC) colour profiles
2. Prepare test charts for press	2.1 Identify and select required test charts 2.2 Print test chart with enterprise standard ink densities on a range of standard and non-standard stock 2.3 Use colour measuring technology to examine printed test charts and generate colour profile for that press and stock

ELEMENT	PERFORMANCE CRITERIA
3. Calibrate digital proofing device	3.1 Linearize proofer for required stock 3.2 Produce digital test file 3.3 Print test file on a proofing device and on the type of press that will be used to obtain a proof for both film and direct-to-plate technologies 3.4 Measure results with a spectrophotometer 3.5 Use results to generate output profile that allows for dot gain, Grey Component Replacement (GCR), Under Colour Removal (UCR), total gradients and black values
4. Create different monitor profiles using colour tuning package	4.1 Set contrast and brightness 4.2 Apply Red, Green, Blue (RGB) and Cyan, Magenta, Yellow, Key/black (CMYK) and ICC profiles 4.3 View jobs on screen through required profiles
5. Calibrate scanner and digital camera	5.1 Load test chart 5.2 Calibrate scanner 5.3 Scan test chart and output digital proof 5.4 Use spectrophotometer to measure proof and generate and load ICC profile into scanning software 5.5 Set up standard lighting conditions according to colour management requirements 5.6 Photograph ICC target and output digital proof 5.7 Use spectrophotometer to measure proof and ICC profile as generated 5.8 Load ICC profile into digital camera software
6. Carry out maintenance	6.1 Check system according to enterprise requirements 6.2 Update system and fix an errors identified during checks according to enterprise requirements
7. Use colour profiles	7.1 Use selected profiles and confirm colour on monitors, proofs and final product match requirements 7.2 Use press fingerprint for final output in a controlled environment 7.3 Include colour wedges in all files and outputs

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
Reading	<ul style="list-style-type: none"> Identifies and evaluates text to establish job requirements
Numeracy	<ul style="list-style-type: none"> Uses technological devices to measure and record data and act on results Determines numerical measurements of specialised equipment
Planning and Organising	<ul style="list-style-type: none"> Takes responsibility for planning and organising own workload and assembles required resources
Self-management	<ul style="list-style-type: none"> Takes responsibility for addressing predictable, and some less predictable, problems in familiar work contexts Identifies and addresses tasks that require proactive monitoring on a regular basis
Technology	<ul style="list-style-type: none"> Analyses results from technical instruments and test samples to diagnose problems Identifies purposes, specific functions and key features of complex digital systems and tools and analyses multiple sources of information

Unit Mapping Information

Supersedes and is equivalent to ICPPRP430 Manage colour.

Links

Companion Volume Implementation Guide is found on VETNet -

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