



Australian Government

Assessment Requirements for ICPPRP430 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 1.0.

Performance Evidence

Evidence of the ability to:

- manage colour in pre-press operations to ensure proofs, monitors and final products match
- find and use information relevant to the task from a variety of information sources
- produce a portfolio of THREE jobs that demonstrates and provides evidence of:
 - final product printed on various stocks and matching digital proofs on simulated stock
 - monitors are checked to ensure they have different loaded profiles that match the portfolio jobs
 - colour management system maintenance procedures.

Note: If a specific volume or frequency is not stated, then evidence

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- describe WHS issues encountered during colour management for pre-press

Light

- describe how light intensity and colour temperature are measured
- identify standard lighting conditions for matching colour
- list effects different lighting conditions have on: using a monitor, proofing and printing

Colour theory

- describe the difference between Red, Green, Blue (RGB) and Cyan, Magenta, Yellow, Key/black (CMYK) colour
- explain Under Colour Removal (UCR) theory and the effect it has on an image
- explain Grey Component Replacement (GCR) theory and the effect it has on an image

Densitometry and spectrophotometry

- explain densitometry and spectrophotometry measurement
- describe use of International Colour Consortium (ICC) profiles and how they affect output

Scanning theory

- list factors that influence selection of highlight and shadow aim points
- explain why grey balance requirements are determined prior to applying colour correction, and how they are determined
- list factors that determine colour correction requirements

Printing process

- explain why different ink densities are used for different stocks
- describe standard ink densities for different types of jobs
- list affects different stocks have on colour reproduction
- list affects different inks have on colour reproduction for proofing and final production
- describe affects age and configuration of the press (eg. 2-colour vs. 4-colour) have on colour reproduction
- define dot gain and how it affects colour
- explain why final output is affected by the type of press and printing process used
- describe strengths and limitations of different printing processes in colour reproduction

Problem solving

- describe common colour management problems and appropriate solutions
- explain when an ICC profile is included in a Portable Document Format (PDF) file
- describe how using the wrong profile affects output

Information sources

- identify sources of information about 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 Pre-Press field of work and include access to special purpose tools, equipment and industry software packages.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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