



Australian Government

Assessment Requirements for 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.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of the unit, including evidence of the ability to:

- produce a portfolio of three jobs that demonstrates that:
 - the final product printed was printed on various stocks and matches digital proofs on simulated stock
 - monitors were checked to confirm they have different loaded profiles that match the requirements of the portfolio jobs
 - enterprise colour management system maintenance procedures have been followed.

In the course of the above, the candidate must:

- demonstrate awareness of colour theory and proofing in pre-press process
- confirm colour in proofs, monitors and final products match.

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:

- HS issues encountered during colour management for pre-press
- light, including:
 - measurements of light intensity and colour temperature
 - standard lighting conditions for matching colour
 - effects different lighting conditions have on using monitors, proofing and printing
- colour theory, including:
 - the difference between Red, Green, Blue (RGB) and Cyan, Magenta, Yellow, Key/black (CMYK) colour
 - Under Colour Removal (UCR) and Grey Component Replacement (GCR) theory and their respective effects on images
 - colour communication standards

- common colour management problems and solutions
- colour measuring technology, including densitometers and spectrophotometers
- use of International Colour Consortium (ICC) profiles, including effect on output
- when an ICC profile is included in a Portable Document Format (PDF) file
- scanning theory, including:
 - factors that influence selection of highlight and shadow aim points
 - determination of grey balance requirements and why it is prior to the application of colour correction
 - factors that determine colour correction requirements
- printing processes, including:
 - ink densities and their application to stocks and different types of jobs
 - the effects different stocks and inks have on colour reproduction throughout the printing process
 - the effects of age and configuration of the press (eg. 2-colour vs. 4-colour) on colour reproduction
 - dot gain and its effect on colour
 - the impact of type of press and printing process on final output
 - strengths and limitations of different printing processes in colour reproduction
- sources of information about colour management.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the area of work.

This includes access to:

- densitometers and spectrophotometers
- scanner
- a digital camera
- digital proofing devices
- industry software packages.

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 -

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