Specification of Competency Standards

for the Printing and Publishing Industry

Unit of Competency

1. Title	Master application of digital colour management
2. Code	PPPRCO401A
3. Level	4
4. Credit	12
5. Competency	<table><tr><td colspan="2" align="center">Performance Requirements</td></tr><tr><td>5.1 Master colour formation theory</td><td>♦ Set appropriate environment for viewing colour ♦ Use measuring instruments for colour evaluation when appropriate ♦ Communicate effectively with customer on colour ♦ Make effective use of major colour definitions with computer ♦ Make flexible use of standard colourimetric systems</td></tr><tr><td>5.2 Master mathematical model of colour and mode of conversion</td><td>♦ Use mathematical method for colour space conversion ♦ Use numbers to show colour difference ♦ Make use of colour spaces for major colour modification ♦ Understand image properties and output requirements and use appropriate colour conversion mode</td></tr></table>

	5.3 Master calibration of device colour	♦ Calibrate screen colours based on understanding of colour management software application and assess pros and cons
		♦ Master colour profile of processing device with colour management system and use numbers to indicate difference
		♦ Use colour management software to modify set colour profile for special colour requirements
		♦ Understand properties of printing machine and prepare colour profile to fit machine
		♦

	5.4 Master application of device profile with prepress software and presentation techniques	♦ Master special functions of major colour management software and use appropriate components for colour modification
		♦ Able to make correct colour setting with different composition software
		♦ Understand and make good use of colour management characteristics with different composition software
		♦ Make correct use of colour profile and techniques for converting profile colour using software
	5.5 Master colour application technology for digital proofing	♦ Adjust linearization of output device
		♦ Identify characteristics and limitations of major digital proofing systems
		♦ Use appropriate colour management system for professional digital proofing with different output systems and able to perform modification according to differences
		♦ Make proper use of continuous tone proofing and virtual dot proofing
		♦ Understand latest use of screen dot and development trend in order to prepare for application of emerging technology
6. Range	Execute colour management and related tasks by making use of colour management hardware and software in printing production department.	

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Able to execute colour management using colour management hardware and software and based on colour and colour reproduction theory.
8.Remarks	The credit value of this unit of competency is based on the assumption that the learner has knowledge of colour management in printing.