

**Specification of Competency Standards**  
**for the Printing & Publishing Industry**  
**Unit of Competency**

Functional Area - Colour Management

Title	Monitor colour management and formulate related plan
Code	111066L4
Range	In relevant prepress department, use relevant colour management instruments, calibrate the digital proofing machine, or to assist the printing operators in calibrating printing machine; formulate standard viewing environment; formulate a plan for the calibration and maintenance of relevant colour management instruments and standard viewing environment; monitor the subordinates to execute colour management work.
Level	4
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Familiar with the application of colour management.</p> <ul style="list-style-type: none"> <li>• Understand various international colour standards.</li> <li>• Master the characteristics and output requirements of images, select appropriate colour conversion mode correctly. <ul style="list-style-type: none"> <li>○ Master correct colour setting in software</li> <li>○ Master the technique of colour conversion of colour characteristic files and ICC profile in software.</li> <li>○ Master the impact of different materials affecting colour reproduction.</li> </ul> </li> <li>• Master the methods and steps in correct calibration of colour management instruments. <ul style="list-style-type: none"> <li>○ Understand the types and functions of various colour management instruments.</li> <li>○ Understand the methods and steps in correct calibration of colour management instruments.</li> </ul> </li> <li>• Master the workflow and application of colour management in digital proof or traditional proof <ul style="list-style-type: none"> <li>○ Understand the application of colour management instruments in digital proof or traditional proof</li> <li>○ Understand the types, characteristics and application of digital proofing machine or printing machines.</li> <li>○ Master the colour reproduction methods of digital proofing machine or printing machine.</li> <li>○ Master the file colour requirements and setting required by various types of proofing machine or printing machine.</li> <li>○ Master how the characteristics of different printing materials influence the colour of colour proofs.</li> <li>○ Master the principles and workflow of calibrating digital proofing machine or printing machine.</li> </ul> </li> <li>• Master the technique of using viewing environment to check originals, proof and print sheets. <ul style="list-style-type: none"> <li>○ Understand the requirements of standard viewing environment.</li> <li>○ Master the methods of checking originals, proof and printed sheets.</li> <li>○ Master the planning of checking and maintaining standard viewing environment.</li> <li>○ Master the planning of calibrating and maintaining colour management instruments.</li> </ul> </li> </ul> <p>2. By using colour management techniques and instruments, calibrate the digital proofing machine or printing machine, to ensure that the machine can produce proof which can satisfy the colour requirements of the customer.</p> <ul style="list-style-type: none"> <li>• Use colour management techniques to produce proofs</li> </ul>

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	<ul style="list-style-type: none"> <li>○ Digital proof — Including but not limited to calibrate digital proofing machine, create ICC profiles, colour conversion and flow control, etc. Or</li> <li>○ Printed proof — Including but not limited to assist the printing machine operators to calibrate printing machine, create ICC profiles, colour conversion and flow control, etc.</li> <li>• Set up standard viewing environment to check the colour of originals, proofs and printed sheets.</li> <li>• Solve the technical problems arising from the process.</li> <li>• Formulate a plan to routine check and maintain the viewing environment.</li> <li>• Formulate a plan to calibrate and maintain relevant colour management instruments.</li> <li>• Monitor the subordinates to carry out colour management work.</li> </ul> <p>3. Demonstrate professional skills and attitude</p> <ul style="list-style-type: none"> <li>• In executing colour management work of calibrating digital proofing machine or to assist the printing operators to calibrate the printing machine, the results should achieve the relevant international colour standards.</li> </ul>
Assessment Criteria	<p>The integrated outcome requirement(s) of this unit of competency is/are:</p> <ul style="list-style-type: none"> <li>• In relevant prepress department, able to use relevant colour management techniques and instruments to calibrate the digital proofing machine, or to assist the printing operators to calibrate the printing machine, in order to produce colour proof which can meet the colour requirements of the customer.</li> <li>• Be able to solve all the technical problems arising from the process.</li> <li>• Be able to set up standard viewing environment to check the originals, proof and print sheets.</li> <li>• Be able to formulate a plan to routine check and maintain a standard colour viewing environment.</li> <li>• Be able to formulate a plan to calibrate and maintain relevant colour management instruments.</li> <li>• Be able to monitor the subordinates to execute colour management work.</li> </ul>
Remark	<p>The credit value of this unit of competency is based on the assumption that the learner has the technique of applying colour management</p> <p>This unit of competency originates from the first edition of PPPRCO401A and its content has been updated.</p>