

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

Functional Area - Printing Technology

Title	Establish printing press calibration procedure in compliance with international printing standard
Code	106260L5
Range	Adjust ink level and pressure of printing press, utilize testing form and spectrophotometer in printing department in order to maintain an even and stable print quality across the print sheet, and match spot colors to standard Lab values in printing department. Apply standard procedure for printing press calibration for synchronising the calibration procedure of computer-to-plate facilities in prepress department. Fine tone printing press for achieving standard requirements, and also upkeep and maintain the printing press stabilities.
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> <li>1. Master the necessary theories used in printing press calibration procedure, including linear compensation, dot gain compensation, tone value increase (dot gain) TVI, grey balance, neutral grey, CIE Lab color model, Neutral Print Density Curve, standard paper classifications, etc. <ul style="list-style-type: none"> <li>• Understand the roles and requirements of computer-to-plate facilities in achieving printing press calibration.</li> </ul> </li> <li>2. Master work sequence and requirements in printing press calibration procedure to meet the requirements of at least one ISO-compliant certification system. Use spectrophotometer and related analytic software to fine tune printing press.</li> <li>3. With the above knowledge, implement printing press calibration procedure for analyzing any possible abnormalities and then rectifying them.</li> </ol>
Assessment Criteria	<p>This integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Be able to explain the theories behind the planning of the entire printing press calibration procedure, the function of each step in the procedure, and the performance characteristics of the printing press after calibration.</li> <li>• Be able to handle the operation of actual printing press through color matching analytic software for completing standard printing press calibration procedure.</li> </ul>
Remark	The credit value of this unit of competency is based on the assumption that the learner has printing knowledge in press operation.