

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

Functional Area - Printing Technology

Title	Establish inline quality monitoring system for lithographic printing press
Code	106265L5
Range	Be able to evaluate the monitoring functionalities of inline quality system for printing press in lithographic printing department of a printing and publishing company, and establish quality system for printing press. Establish quality standard that can match customer requirements and production efficiency, uplift production throughput and reduce material wastages of printing department.
Level	5
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the operational principles and functionalities of inline quality monitoring system for lithographic printing press.</p> <ul style="list-style-type: none"> • Understand the control points and facilities setting of inline quality monitoring system for either sheet-fed or web lithographic printing press. • Understand the set-up methods for adding inline quality monitoring system on existing printing facilities. • Understand the effects and limitations of inline quality monitoring system within the whole production workflow. • Understand the preparation of comparison file and print sheets for matching with the inline quality monitoring system, including ink density, print image registration standard, printing image resolution. • Understand the importance of print standards and compatibility with the system. • Understand various causes and remedial methods of different kinds of print defects. • Understand the work procedure for adjusting, repair and maintenance of quality monitoring system. • Understand quality control instruments for printing, such as densitometer, control strip scanners, etc and their operating methods. <p>2. With the above knowledge, be able to establish the specification of print sheet quality standard in printing department and provide specifications for the inline quality monitoring system, so as to match with the quality requirements of different customers.</p> <ul style="list-style-type: none"> • Evaluate the functional performance of inline quality monitoring system during printing production. • Confirm print sheet can match with customers' quality requirements before the actual print production. <p>3. Be able to analyse report generated by inline quality monitoring system and raise improvement measures, and coordinate quality monitoring system operation with printing press operation, in order to maximize production efficiency.</p>
Assessment Criteria	<p>This integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Be able to establish specifications for print sheet quality standard in printing department. • Be able to evaluate functional performance of inline quality monitoring system. • Be able to analyse reports generated by inline quality monitoring system and raise improvement measures.
Remark	The credit value of this unit of competency is based on the assumption that the learner has printing production technology application and management knowledge.