

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

Functional Area - Material Technology

Title	Understand printing material testing
Code	106288L4
Range	Test printing materials and evaluate their printability by using testing equipment for the printing production department.
Level	4
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Well versed in the testing methods of major printing materials.</p> <ul style="list-style-type: none"> <li>• Understand how and why ink dry on printing substrates, and the related physical and chemical changes.</li> <li>• Know the ink formula for major printing methods and materials.</li> <li>• Know the manufacturing processes of printing substrates, such as papers and plastic.</li> <li>• Know the applications of environmentally friendly papers, including the structures and raw materials of FSC papers and recycled papers, as well as their physical and chemical properties.</li> </ul> <p>2. With the above knowledge, be able to identify factors that affect the quality and properties of printing substrates (including papers and plastic) during manufacturing.</p> <p>3. Based on the physical and chemical properties and printability of different printing materials and their inter-relationship,, conduct testing and evaluations of printing materials.</p>
Assessment Criteria	<p>The integrated outcome requirement of this unit of competency:</p> <ul style="list-style-type: none"> <li>• Be able to test and evaluate printing materials and perform related tasks.</li> </ul>
Remark	The credit value of this unit of competency is based on the assumption that the learner has knowledge of printing materials.