

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

1. Title	Master techniques for adjusting and operating ink roller, dampening, plate, rubber and pressure systems of lithographic printing press
2. Code	PPRPR203A
3. Level	2
4. Credit	12
5. Competency	<p style="text-align: center;"><b><u>Performance Requirements</u></b></p> <p>5.1 Master techniques for operating dampening system</p> <ul style="list-style-type: none"> <li>◆ Understand names and functions of dampening system components</li> <li>◆ Have a clear idea of useful techniques for installing and removing dampening rollers</li> <li>◆ Understand function of fountain solution</li> <li>◆ Familiar with characteristics of major dampening systems</li> <li>◆ Have thorough understanding of pros and cons of major dampening systems</li> </ul> <p>5.2 Understand basic structure of ink roller system</p> <ul style="list-style-type: none"> <li>◆ Identify names and functions of ink roller system components</li> <li>◆ Know types of ink roller systems</li> <li>◆ Understand characteristics and workings of major ink roller systems</li> </ul> <p>5.3 Master techniques for operating ink roller system</p> <ul style="list-style-type: none"> <li>◆ Master useful techniques for installing and removing ink fountain accessories</li> <li>◆ Have a clear idea of useful techniques for ink level control and ink roller system cleaning</li> </ul>

		<ul style="list-style-type: none"> <li>◆ Familiar with ink roller system inspection and useful techniques for preservation</li> <li>◆ Master useful techniques for installing and removing ink rollers</li> <li>◆ Understand method and techniques for adjusting ink roller pressure</li> </ul>
5.4	Know relationship between ink-water balance adjustment and print effect	<ul style="list-style-type: none"> <li>◆ Master techniques for adjusting and controlling moisture level and ink level</li> <li>◆ Understand importance of controlling ink-water balance</li> <li>◆ Understand effect of ink level and dampening system moisture level adjustment on print effect</li> </ul>
5.5	Master method and techniques for replacing printing plate of impression system	<ul style="list-style-type: none"> <li>◆ Understand techniques and importance of examining printing plate</li> <li>◆ Master useful techniques for loading and removing printing plate</li> <li>◆ Familiar with importance of proper plate loading to registration process</li> </ul>
5.6	Master method and techniques for replacing rubber blanket of impression system	<ul style="list-style-type: none"> <li>◆ Understand characteristics of good rubber blanket</li> <li>◆ Master useful techniques for replacing and mending rubber blanket</li> <li>◆ Understand importance of proper rubber blanket and packing sheet installation</li> <li>◆ Know relationship between examining and measuring thickness of rubber blanket and rubber cylinder undercut</li> </ul>

	<p>5.7 Know effect of impression pressure adjustment and paper feeding speed on print effect</p> <ul style="list-style-type: none"> <li>◆ Understand techniques for adjusting impression pressure</li> <li>◆ Use micrometer correctly</li> <li>◆ Understand useful techniques for measuring thickness of paper</li> <li>◆ Understand method of examining impression</li> <li>◆ Master factors affecting print effect and solutions</li> </ul> <p>5.8 Know reasons and solutions for common problems in lithographic printing</p> <ul style="list-style-type: none"> <li>◆ Identify common problems in lithographic printing</li> <li>◆ Analyze reasons for common problems in lithographic printing</li> <li>◆ Understand solutions for common problems in lithographic printing</li> </ul> <p>5.9 Adjust lithographic printing press</p> <ul style="list-style-type: none"> <li>◆ Adjust ink roller and dampening systems of lithographic printing press, install printing plate and rubber blanket properly and make use of tools to assist in examining and adjusting impression pressure according to printing need</li> </ul>
6. Range	Evaluate print effect, adjust lithographic printing press and ink-water balance, replace printing plate and rubber blanket and perform related tasks in printing department.
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Able to adjust ink roller and dampening systems of lithographic printing press, install printing plate and rubber blanket properly, make use of tools to assist in examining and adjusting impression pressure according to printing need and able to solve common printing problems and perform related tasks.</p>

8.Remarks	The credit value of this unit of competency is based on the assumption that the learner has basic knowledge of adjusting and operating lithographic printing press.
-----------	---