

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

1. Title	Know adjustment and operation of ink roller, dampening, plate, rubber and pressure systems of lithographic printing press
2. Code	PPRPR103A
3. Level	1
4. Credit	12
5. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>5.1 Know techniques for operating dampening system</p> <ul style="list-style-type: none"> ◆ Know names and functions of dampening system components ◆ Know correct method for installing and removing dampening rollers ◆ Understand use of fountain solution ◆ Have a clear idea of importance of mixing standard fountain solution <p>5.2 Know techniques for operation ink roller system</p> <ul style="list-style-type: none"> ◆ Know names and functions of ink roller system components ◆ Use correct method to install, remove, clean and maintain ink fountain system ◆ Know types and workings of ink roller systems ◆ Use correct method to install, remove, clean and maintain ink roller system <p>5.3 Know relationship between ink-water balance adjustment and print effect</p> <ul style="list-style-type: none"> ◆ Understand adjustment and control of moisture level and ink level ◆ Know method for controlling ink-water balance ◆ Understand effect of ink level and dampening system moisture level adjustment on print effect

	<p>5.4 Know method and techniques for replacing printing plate of impression system</p>	<ul style="list-style-type: none"> ◆ Understand methods for examining printing plate ◆ Know correct method for loading and removing printing plate ◆ Have a clear idea of importance of proper plate loading to registration process
	<p>5.5 Know method and techniques for replacing rubber blanket of impression system</p>	<ul style="list-style-type: none"> ◆ Know types of rubber blankets and methods of mending ◆ Know proper installation of rubber blanket and packing sheet ◆ Know clearly how to inspect and measure thickness of rubber blanket and its relationship with rubber cylinder undercut
	<p>5.6 Know effect of impression pressure and paper feeding speed on print effect</p>	<ul style="list-style-type: none"> ◆ Know clearly method for adjusting impression pressure ◆ Know correct way of using micrometer to measure thickness of printing substrate ◆ Understand method for inspecting printing substrate ◆ List factors affecting print effect
	<p>5.7 Know reasons and solutions for common problems in lithographic printing</p>	<ul style="list-style-type: none"> ◆ Know reasons for common problems in lithographic printing ◆ Able to list solutions for common problems arising from lithographic printing
	<p>5.8 Assist in adjusting lithographic printing press</p>	<ul style="list-style-type: none"> ◆ Assist in adjusting ink roller and dampening systems of lithographic printing press and in installing printing plate and rubber blanket properly according to printing need.

6. Range	Assist in adjusting ink-water balance of lithographic printing press, replacing printing plate and rubber blanket and related tasks in printing department.
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Able to assist in adjusting ink roller and dampening systems of lithographic printing press and in installing printing plate and rubber blanket properly and related tasks according to printing need.
8. Remarks	This unit of competency is applicable to printing industry practitioners in general.