

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

1. Title	Understand workings of printing machinery
2. Code	PPPRPM301A
3. Level	3
4. Credit	12
5. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>5.1 Know effect of printing machine properties on printing material, ink, plate, etc</p> <ul style="list-style-type: none"> ◆ Understand major lithographic printing including mechanical workings and maintenance procedure for sheet-fed and web-fed printing machine ◆ Understand design theory and mechanical structure of lithographic, intaglio, relief and screen printing presses ◆ Understand effect of major printing materials including paper, printing ink and plate on finished print products in major printing ◆ Know clearly effect of supplementary materials needed for major printing on printing machine ◆ Know effect of press room temperature and humidity on materials and printing flow

5.2 Know registration system and electromechanical design of colour adjustment and control

- ◆ Know techniques for adjusting position of print image
- ◆ Understand registration system and colour adjustment in lithographic, intaglio, relief and screen printing
- ◆ Know clearly registration system of major postpress facilities
- ◆ Know basic mechanical design of major printing machines
- ◆ Able to describe effect of press room temperature and humidity on registration

	<p>5.3 Understand optimization of mechanical /electronic workings</p> <ul style="list-style-type: none"> ◆ Know development trend of latest mechanical / electronic technology used in printing machines ◆ Know major mechanical / electronic technological support for lithographic, intaglio, relief and screen printing ◆ Know clearly positioning of major mechanical/electronic technology ◆ Know automation design of major mechanical / electronic technology ◆ Understand mechanical / electronic workings for product, manpower and environment optimization <p>5.4 Assist in quality and productive operation</p> <ul style="list-style-type: none"> ◆ Assist in quality and productive operation of machines based on the effect of printing materials, supplementary printing materials, press room temperature and humidity on the quality and production volume of print products and according to set instructions
6. Range	Operate machine to assist in production based on the effect of printing materials, supplementary printing materials, press room temperature and humidity on the quality and production volume of print products and according to set instructions and perform related tasks in printing production department.

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Able to assist in quality and productive operation by controlling machine for production based on the effect of printing materials, supplementary printing materials, press room temperature and humidity on the quality and production volume of print products and according to set instructions.
8. Remarks	The credit value of this unit of competency is based on the assumption that the learner has general knowledge of printing machinery.