



**Australian Government**

# **ICPSCP374 Operate a semi-automatic screen printing machine**

**Release: 1**

## ICPSCP374 Operate a semi-automatic screen printing machine

### Modification History

| Release   | Comments                                                                                     |
|-----------|----------------------------------------------------------------------------------------------|
| Release 1 | This version first released with ICP Printing and Graphic Arts Training Package Version 1.0. |

### Application

This unit describes the skills and knowledge required to produce a print on a range of common substrates, using semi-automatic equipment and screening techniques.

It applies to individuals working in the printing and graphic arts industry who may have to set up and operate power-driven or hand-operated screen printing machines. They may have to provide leadership and guidance to others and have some limited responsibility for the output of others.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

### Unit Sector

Screen printing

### Elements and Performance Criteria

| ELEMENT                                          | PERFORMANCE CRITERIA                                                                                                                                                                                                      |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                    |
| 1 Identify job requirements                      | 1.1 Substrate is checked against job specifications with any irregularities reported and rectified where possible<br>1.2 Ink is checked against job specifications<br>1.3 Stencil is checked against job specifications   |
| 2 Prepare machine to print                       | 2.1 Substrate position and stencil registration are adjusted according to job specifications<br>2.2 Ink is applied to screen in quantity required for screen size<br>2.3 Equipment is kept clean and spills are minimised |

| ELEMENT                                  | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 Produce proof print                    | <p>3.1 Proof print is run off and checked for colour, strength, registration, adhesion, clarity, gloss level, drying or curing, artwork detail and other technical aspects according to job specifications</p> <p>3.2 Adjustments are made according to product and machine specifications</p> <p>3.3 Belt speed and energy required are set to achieve desired curing or drying properties</p> <p>3.4 Appropriate approval to commence production is sought prior to commencement</p>                                                                                                                                                                                                                                                                                              |
| 4 Run job and monitor print quality      | <p>4.1 Printing speed production is adjusted to maximise quality and output</p> <p>4.2 Print quality is continuously evaluated and adjusted as required</p> <p>4.3 Effects of ink alterations during run are monitored and any discrepancy is notified according to enterprise procedures</p> <p>4.4 Workplace documentation is completed as required</p> <p>4.5 Curing and drying are constantly monitored and adjusted according to manufacturer or supplier and job specifications</p>                                                                                                                                                                                                                                                                                           |
| 5 Carry out routine user maintenance     | <p>5.1 Equipment is cleaned according to enterprise procedures</p> <p>5.2 Fault conditions are identified and reported according to enterprise procedures</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6 Stack production output                | <p>6.1 Output is checked for thorough drying or curing before stacking</p> <p>6.2 Job identification is labelled and recorded</p> <p>6.3 Job status and progress are checked against job specifications and any necessary action is taken</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7 Conduct shutdown of production process | <p>7.1 Material is transferred to correct destination in safe manner</p> <p>7.2 Excess ink, screens, squeegees and flood coaters are removed and cleaned according to work health and safety (WHS) requirements and manufacturer or supplier specifications</p> <p>7.3 Waste materials and chemicals are disposed of according to manufacturer or supplier specifications, regulatory requirements and enterprise procedures</p> <p>7.4 Equipment and surrounding areas are cleaned according to manufacturer or supplier specifications and enterprise procedures</p> <p>7.5 Tools and equipment are stored and maintained according to manufacturer or supplier to ensure ease of access and operator safety</p> <p>7.6 Correct procedure for dealing with spilt chemicals is</p> |

| ELEMENT | PERFORMANCE CRITERIA                       |
|---------|--------------------------------------------|
|         | demonstrated according to WHS requirements |

## Foundation Skills

*This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.*

| Skill                      | Performance Criteria                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading                    | 1.1-1.3, 4.4, 4.5, 6.2, 6.3, 7.3-7.5                          | <ul style="list-style-type: none"> <li>Establishes job requirements and correct processes from relevant information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Writing                    | 1.1, 4.3, 4.4, 5.2, 6.2                                       | <ul style="list-style-type: none"> <li>Records information relating to job outcomes and machinery problems</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Oral Communication         | 1.1, 3.4                                                      | <ul style="list-style-type: none"> <li>Checks the progress and quality of the job with supervisor</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Numeracy                   | 2.2, 3.3, 4.1, 4.5                                            | <ul style="list-style-type: none"> <li>Uses simple mathematical calculations to determine drying time and optimum belt speed</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                         |
| Navigate the world of work | 4.5, 5.1, 5.3, 6.2, 7.1-7.6                                   | <ul style="list-style-type: none"> <li>Complies with organisational, legal and regulatory requirements related to own work with specific reference to safety</li> </ul>                                                                                                                                                                                                                                                                                                                                                                         |
| Get the work done          | 1.1-1.3, 2.1-2.4, 3.1, 3.2, 4.2, 4.3, 4.5, 5.1, 5.2, 6.1, 6.3 | <ul style="list-style-type: none"> <li>Understands the purposes, specific functions and key features of common digital systems and tools and operates them effectively to complete routine tasks</li> <li>Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for efficiency</li> <li>Automatically implements standard procedures for routine decisions</li> <li>Recognises and takes responsibility for addressing predictable problems in familiar work contexts</li> </ul> |

## Unit Mapping Information

| Code and title<br>current version | Code and title<br>previous version | Comments        | Equivalence status |
|-----------------------------------|------------------------------------|-----------------|--------------------|
| ICPSCP374 Operate                 | ICPSP374C Operate a                | Updated to meet | Equivalent unit    |

| <b>Code and title<br/>current version</b> | <b>Code and title<br/>previous version</b> | <b>Comments</b>                 | <b>Equivalence status</b> |
|-------------------------------------------|--------------------------------------------|---------------------------------|---------------------------|
| a semi-automatic screen printing machine  | semi-automatic screen printing machine     | Standards for Training Packages |                           |

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>