



Australian Government

ICPSUP2110 Prepare inks and additives

Release: 1

ICPSUP2110 Prepare inks and additives

Modification History

Release	Comments
Release 1	This version first released with ICP Printing and Graphic Arts Training Package Version 4.0.

Application

This unit describes the skills and knowledge required to prepare inks and additives in a range of printing processes.

It applies to individuals who perform a range of mainly routine tasks in various sectors of the printing and graphic arts industry, using limited practical skills and fundamental knowledge in a defined context. They generally work under direct supervision.

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

Unit Sector

Support

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. Select ink	1.1. Identify client requirements and job specifications, including equipment and materials, according to enterprise procedures 1.2 Select inks, dyes and additives 1.3 Check suitability of inks, dyes and additives selected and take required action to meet client, enterprise and industry quality standards 1.4 Confirm inks and dyes meet substrate requirements
2. Prepare ink	2.1 Prepare inks, dyes and additives as required and according to manufacturer instructions and safety and regulatory requirements 2.2 Mix required colour and volume of ink and match to job specifications and equipment

ELEMENT	PERFORMANCE CRITERIA
	2.3 Record formulation of ink and approved colour
3. Store and handle ink	3.1 Store, handle and label inks, dyes and additives according to manufacturer instructions 3.2 Prepare inks, dyes and additives for re-use in future tasks

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading	Identifies text within job specifications and follows written instructions
Writing	Records key information related to outcomes of the job
Numeracy	Uses simple mathematical techniques to determine weights and volume required
Self-management	- Takes personal responsibility for adherence to regulatory requirements within industry standards and enterprise procedures - Takes responsibility for, identifies and responds to routine low-impact decisions within the immediate work context
Planning and Organising	Determines priorities and sequences steps involved in clearly defined, familiar tasks, and identifies and assembles required resources with some assistance

Unit Mapping Information

Supersedes and is equivalent to ICPSUP211 Prepare ink and additives.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICPSUP2110 Prepare inks and additives

Modification History

Release	Comments
Release 1	This version first released with ICP Printing and Graphic Arts Training Package Version 4.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of the unit, including evidence of the ability to:

- prepare at least two batches of inks and additives to match a colour sample and specified end-use requirements.

In the course of the above, the candidate must mix volumes of ink to obtain a required colour and quantity.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- workplace health and safety (WHS) requirements related to handling, preparing and matching inks and additives
- selection criteria for inks and additives
- characteristics of inks including requirements for different substrates
- physical, chemical, and light and colour fastness of ink
- process for determining volume of ink required
- methods to check and adjust ink colour and consistency
- ink and additive quality assurance procedures
- effect of lighting conditions on colour matching
- criteria for determining compatibility of the ink being mixed
- ink drying methods in the printing process
- Material safety Data sheets (MSDS) for this ink system
- environmental conditions affecting the storage of inks and additives
- labelling conventions for mixed inks
- disposal procedures for inks, solvent and solvent rags
- regulatory requirements regarding inks

- required manuals, enterprise procedures and safety and other documentation, including their location and purpose.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the area of work.

This includes access to:

- inks and additives
- printing equipment.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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