



Australian Government

Assessment Requirements for ICPINK221 Blend chemicals

Release: 1

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Modification History

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

Performance Evidence

Evidence of the ability to:

- locate, interpret and use information from various sources to carry out tasks
- use a mixer disperser OR a bead mill OR an automatic ink dispensing system to blend TWO batches of chemicals OR tint TWO batches of ink intermediates or concentrates according to manufacturer's and job specifications, health and safety requirements and enterprise procedures including:
 - selecting, checking and setting up chemicals, ink, materials and equipment
 - carrying out quality checks during blending and making required adjustments
 - completing required records
 - cleaning and removal of waste.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- list and briefly describe the purpose of each of the listed items used in the blending of chemicals for ink or varnish manufacture:
 - high and low speed dispersers
 - pan washer or scrubbers
 - pumps
 - valves
 - automatic ink dispensing system
 - homogeniser
 - de-ioniser
- identify potential hazards in the selection, preparation and clean up of materials and equipment for blending chemicals, including the correct use of safety equipment

- identify environmental issues that need to be considered when working with the range of materials used in chemical blending and tinting
- describe the enterprise procedures for:
 - preparing containers and equipment for blending and tinting
 - adding chemicals and constructing correct colours according to formulae
 - testing conductivity, viscosity and pH, where in-process testing is conducted
 - sampling and testing
 - a planned shutdown
- explain the purpose and process of:
 - homogenisation
 - de-ionising water when it is to be used in the blending process
 - batch coding systems
- outline the checks to be made when measuring chemicals for blending
- explain the factors that determine the position of the mixing head when blending
- list and describe problems that may occur in the tinting process and how these may be overcome.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the ink manufacture field of work and include access to:

- enterprise documents and policies and procedures
- materials and equipment used in the blending process
- cleaning chemicals, materials and equipment.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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