



Australian Government

Assessment Requirements for ICPSUP311 Prepare ink and additives (advanced)

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:

- prepare at least TWO different lots of ink and additives that require special colour matching and match colour sample by manual and electronic means
- select suitable ink types for different substrates
- meet client requirements, job specifications, enterprise and industry standards when selecting, preparing, storing and handling ink or additives, and using equipment.

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:

- identify manuals, safety and other documentation needed for this task and briefly outline the relevant information in each source

WHS requirements

- outline work health and safety (WHS) requirements for operating machinery or equipment
- identify health hazards of using inks, solvents and additives
- list pollution and environmental issues to be considered when working with inks and additives
- summarise the enterprise procedures for working safely

Ink/additives and test substrate compatibility

- describe substrate characteristics and the end use of the substrate
- explain why ink colour fastness needs to be determined and considered
- explain how to determine whether ink will adhere to the substrate
- explain how to test compatibility of solvents, monomers and additives with ink

Ink quantity and match sample by hand/computer

- explain the formula for calculating the correct quantity of ink
- outline details required to calculate ink quantity
- list any computer-based packages used to calculate ink quantity

Ink and check consistency and colour

- explain the effect of ink coverage on screen mesh, machine and squeegee
- describe the software program(s) used for matching colours and required inputs
- describe ideal conditions for matching colours
- explain the effect white mixed in colour has on finished colour light fastness
- describe methods for checking and adjusting ink colour and consistency
- list machine characteristics and other parameters that affect ink deposit and consequently colour
- describe effects of viscosity changes in ink

Ink type and record information

- explain procedures for recording formulation, by hand or by computer
- identify who approves the mixed colour prior to commencing production
- identify the process for recording the recipe for the colour

Storage, handling and labelling

- explain systems for labelling mixed inks
- describe environmental conditions in place for ink storage
- explain where to find manufacturer's specifications and MSDSs.

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 Support field of work and include access to inks and additives.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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