



Australian Government

Assessment Requirements for ICPSCP341

Prepare stencil using direct electronic imaging method

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:

- safely prepare TWO different screens using direct electronic imaging techniques according to all manufacturer, job, enterprise and health and safety requirements.

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:

- outline the influence that mesh count has on the final printed product
- identify the need to have a correctly tensioned screen and the effect of screen tension on screens of various mesh count or grades
- identify the degreasing or cleaning techniques that are employed prior to coating the screen
- describe the information that is contained in the material safety data sheet (MSDS) for the emulsion
- identify pollution and environmental issues that need to be considered when working with emulsions, including the need to work in a safelight area
- describe maintenance that is required on the direct projection camera
- discuss the kinds of high sensitivity emulsion that are available and state their characteristics, lifespans and areas of use
- outline the preparation method for the emulsion used
- describe the influence that the length of run and ink used have on the coating technique
- discuss the number of coats of emulsion necessary and the best method of coating the screen
- identify the best position (horizontal or vertical) for drying the screen to prevent scum and streaking
- describe the effect of heat on the emulsion during the drying process

- outline the health and safety concerns when exposing the screen
- describe the operating features of the direct projection camera
- describe the best position on the frame, the registration requirements and the scanning speed and exposure time
- summarise inputting information into the computer, manipulation of the image and how to interpret output information
- describe the effect of temperature, pressure and period of washing on the emulsion, as well as determining when washing out is complete
- describe the post-curing effect on the stencil
- outline the main information in the MSDS for a particular blackout
- identify the correct ink and stencil for the type of blackout to be used
- identify preventive measures required to minimise pinholes
- describe the means by which a screen can be identified at a later date
- identify required manuals, safety and other documentation and briefly outline the relevant information in each source.

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 screen printing field of work and include access to direct electronic imaging 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>