



**Australian Government**

**Assessment Requirements for ICPSCP339  
Prepare stencil using direct projection  
method**

**Release: 1**

# Assessment Requirements for ICPSCP339 Prepare stencil using direct projection method

## 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 the direct projection method according to all job, manufacturer, enterprise and work health and safety (WHS) 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:

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

- identify the effect of heat on the emulsion during the drying process
- outline health and safety concerns when exposing the screen
- describe the operating features of the direct projection camera
- explain how to set the enlargement factor and take into account registration on the frame for the appropriate printing machine
- describe the exposure techniques and procedures that are used and how to calculate exposure time
- identify the effect of temperature, pressure and period of washing on the emulsion, including how to determine when washing out is complete
- outline the post-curing effect on the stencil
- summarise the information that is obtained from the MSDSs for a particular blackout
- explain how ink and stencil type influence the choice of blackout
- outline the preventive measures that can be taken to minimise pinholes and the importance of taping the edge of the frame
- describe how 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.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>