



Australian Government

Assessment Requirements for ICPPRP398

Set up and produce a 3D scan

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 2.0.

Performance Evidence

Evidence of the ability to:

- communicate with client to ascertain needs
- determine scan requirements from client specifications and object criteria
- select an appropriate scanner and prepare the surface of the object
- prepare the scanner and orient the object effectively
- scan the object safely and efficiently
- create files from scanner to client specifications.

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:

- describe the common three-dimensional (3D) scanner technologies and their respective applications
- evaluate a range of objects to be scanned and select an appropriate scanner and the treatments to be applied
- list and describe current industries where 3D scanning is used
- identify the safety requirements when using 3D scanners
- explain the importance of adjusting or considering scale, units of measurement, calibration, distance from subject, tolerance, and resolution for efficient 3D scans
- specify the output file types for various applications, including but not limited to, the following file extensions:
 - STL - standard triangle language/standard tessellation language file format
 - OBJ - geometry definition file format
 - PLY - polygon file format
 - VRML - virtual reality modelling language file format
 - XYZ/PTX - point cloud file formats
 - AMF - additive manufacturing file format
- describe the file conversion process required to prepare files for various applications.

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 printing and graphic arts field of work and include access to:

- a 3D model
- a 3D scanner
- specifications for scanner output files
- organisational and manufacturers' operating procedures.

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

Links

Companion volumes are available from the IBSA website -
http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=17