



Australian Government

ICPPTD303 Set up and produce 3D scans

Release: 1

ICPPTD303 Set up and produce 3D scans

Modification History

| Release | Comments |
|-----------|--|
| Release 1 | This version first released with ICP Printing and Graphic Arts Training Package Version 3.0. |

Application

This unit describes the skills and knowledge required to set up and operate a three-dimensional (3D) scanner to scan 3D objects and output data to a specified data file type.

It applies to individuals working in a variety of industry sectors, who utilise 3D images for graphical, artistic and manufacturing applications.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Three-Dimensional Printing

Elements and Performance Criteria

| ELEMENT | PERFORMANCE CRITERIA |
|--|--|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i> |
| 1. Prepare object to be scanned | 1.1 Select appropriate scanner based on availability, and the type and complexity of object to be scanned 1.2 Identify and document output requirements of scan in accordance with client specifications 1.3 Treat surface of object in accordance with scanner's operating requirements 1.4 Orientate object in accordance with organisational policies and procedures |

| | |
|---|---|
| 2. Prepare scanner | <p>2.1 Check and adjust scanner in readiness for operation according to manufacturer operating procedures</p> <p>2.2 Report any malfunctions to designated personnel for repair or maintenance in accordance with organisational policies and procedures</p> <p>2.3 Select resolution of the scanner in accordance with client requirements</p> |
| 3. Operate scanner | <p>3.1 Operate scanner according to manufacturer operating procedures and organisational work health and safety (WHS) procedures</p> <p>3.2 Monitor scanner settings and adjust as required in accordance with manufacturer operating procedures</p> <p>3.3 Check data and images to ensure quality meets client requirements</p> <p>3.4 Convert scanner output files into specified file format</p> <p>3.5 Shut down and reset scanner according to organisational policies and procedures and manufacturer operating procedures</p> |
| 4. Prepare output file ready for end user | <p>4.1 Import scan data into secondary software according to organisational policies and procedures</p> <p>4.2 Align scan data to real world planes according to client specifications</p> <p>4.3 Present data files to the client and confirm requirements have been met</p> |

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

| Skill | Description |
|--------------------|---|
| Reading | <ul style="list-style-type: none"> Analyses graphics files and other documentation to determine scanning requirements |
| Writing | <ul style="list-style-type: none"> Names data files according to naming conventions |
| Oral communication | <ul style="list-style-type: none"> Effectively participates in verbal exchanges using active listening and questioning to convey and clarify information |

| | |
|----------------------------|---|
| Numeracy | <ul style="list-style-type: none"> • Uses mathematical processes to estimate size • Performs mathematical calculations to check and adjust software to reflect appropriate tolerances for scanning |
| Navigate the world of work | <ul style="list-style-type: none"> • Understands roles and responsibilities for tasks and makes basic decisions on work completion parameters • Complies with legislative and organisational requirements |
| Interact with others | <ul style="list-style-type: none"> • Understands what to communicate, with whom and how, in routine work situations |
| Get the work done | <ul style="list-style-type: none"> • Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes • Makes routine decisions and implements standard procedures to address problems • Uses familiar digital technologies and systems to control equipment, access information, enter data and save files |

Unit Mapping Information

| Code and title current version | Code and title previous version | Comments | Equivalence status |
|---------------------------------------|--|---|------------------------|
| ICPPTD303 Set up and produce 3D scans | ICPPRP398 Set up and produce a 3D scan | Updates to elements, performance criteria and assessment requirements | Not an equivalent unit |

Links

Companion Volume Implementation Guides are available from VETNet -

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