



**Australian Government**

# **Assessment Requirements for ICPPTD304 Apply problem solving techniques to 3D printing maintenance and operation**

**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 3.0. |

### Performance Evidence

The candidate must demonstrate they can perform the following according to the standards defined in the elements, performance criteria and foundation skills of this unit.

The candidate must demonstrate the ability to undertake routine maintenance and trouble shoot and rectify problems for a 3D printer in accordance with work health and safety requirements and workplace procedures to meet required outcomes. This includes demonstrating the ability to:

- undertake routine maintenance on a 3D printer according to manufacturer specifications a minimum of 2 times
- determine the cause of a routine malfunction a minimum of 2 times
- produce documentation that records faults and recommends solutions to problems
- prepare, operate and shut down a 3D printer according to manufacturer and organisational requirements.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

### Knowledge Evidence

The candidate must be able to demonstrate the following knowledge to effectively complete the tasks outlined in the elements and performance criteria of this unit, and to manage tasks in the context of the work role:

- current hardware, software and procedures
- current industry maintenance and service practices, processes and procedures
- current operating systems
- solutions to common faults in hardware and software
- features of common 3D printers including:
  - basic operation
  - common applications

- hazards associated with use
- construction technology
- work health and safety (WHS) considerations for consumables used in current 3D printers
- workplace procedures and WHS requirements for working with technologies currently used for 3D printing.
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## Assessment Conditions

Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance. 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 printer
- manufacturer's operating procedures
- relevant personal protective equipment (PPE)
- organisational and manufacturer 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 Volume Implementation Guides are available from VETNet -

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