



Australian Government

Assessment Requirements for ICTICT531 Test network using virtual instruments

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 7.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- test at least three different types of networks using at least one complex and at least one simple virtual instrument in each network.

In the course of the above, the candidate must:

- use system manuals and equipment according to manufacturer specifications.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- organisational policies and procedures, including those for:
 - obtaining work details and scope from relevant personnel
 - arranging site access
 - security arrangements
 - report sign-off procedures
 - identifying limitations of virtual instruments
 - measuring networking systems
- features and applications of:
 - simple and complex virtual instruments
 - band-limited channels
 - data buses
 - simulation algorithms
 - virtual instruments
- differences between simple and complex virtual instruments

- sampling and data conversion processes
- instrumentation principles and practices
- mathematical and problem-solving techniques of measuring networking systems using virtual instruments
- technological developments of virtual instruments
- internet support services
- modulation methods, AM, FM and digital formats
- report formats and requirements
- legislation, codes, regulations and standards and workplace health and safety requirements for scoped work.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- internet sites
- electronic workbench or similar software
- virtual instrument applications and media
- a workplace conducting operations involving virtual instruments
- support from a competent supervisor or mentor
- networking equipment that can be used for integrating projects
- industry software packages.

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 Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>