



Australian Government

**Assessment Requirements for ICTCYS401
Design and implement network security
infrastructure for an organisation**

Release: 1

Assessment Requirements for ICTCYS401 Design and implement network security infrastructure for an organisation

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

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:

- design and implement a network security infrastructure according to organisational requirements.

In the course of the above, the candidate must:

- identify at least three security risks and at least three threats impacting business
- identify and evaluate the advantages and disadvantages of at least two industry standard network security providers suitable to infrastructure being designed and implemented.

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:

- network infrastructure features, including:
 - connectivity
 - routing and switching capabilities
 - network security
 - access control
- organisational business processes and applicable organisational, infrastructure, network and security requirements in each area
- organisational procedures applicable to designing and implementing network security infrastructure, including:
 - documenting established requirements, risks and work performed
 - establishing requirements and features of network security infrastructure
 - establishing maintenance and alert processes
 - conducting routine reviews of network security infrastructure
 - testing methods and procedures

- security risks, and tolerance of risk in an organisation
- industry standard network security providers
- industry standards and regulations applicable to implementing network security infrastructure in an organisation.

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:

- required hardware, software and its components
- organisational procedures and policies applicable to network security infrastructure
- required network security providers and solutions
- site server
- application and user security technologies.

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>