Assessment Requirements for ICTNWK618 Design and implement a security system

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 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 virtual private network (VPN) and mitigate attacks on at least two different occasions.

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:

- authentication protocols and encryption methodologies
- intrusion detection system (IDS) and intrusion prevention system (IPS)
- internet protocol (IP) and networking models
- industry standard procedures, techniques and certifications for:
    - access control lists
    - wireless regulations
    - malicious attacks and prevention techniques
    - network management tools
- procedures and techniques to configure, verify and troubleshoot, including:
    - switch with virtual local area networks (VLANs) and inter-switching communications
    - router
    - access control lists
- command line interface to configure and test network elements
- common features of Terminal Access Controller Access-Control System Plus (TACACS+) and Remote Authentication Dial In User Service (RADIUS) authentication, authorisation and accounting (AAA) protocols.

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:

- a site where network security may be evaluated and tightened
- required hardware and software, including:
    - LAN or WLAN internet work technologies
    - network security technologies
- organisational guidelines, procedures and policies applicable to designing and implementing security systems.

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