Specification of Competency Standards for ICT Operation and Support

Unit of Competency

Functional Area: Security Support

Title	Administer perimeter firewall
Code	107890L3
Range	This unit of competency applies to IT personnel who administer the organisation's network security; particularly the perimeter firewall which protects the organisaton internal network from the external network. The administering tasks of these IT personnel include but not limited to: maintain firewall filtering rules, monitor security logs, perform maintenance of the firewall, ensure the firewall is always on, etc.
Level	3
Credit	3
Competency	 Performance Requirements Knowledge for administering perimeter firewall: Possess good communication and interpersonal skills Possess detailed knowledge of network security and different risks Possess detailed knowledge of operating firewall and monitoring equipment Understand the organisation's network security requirements and policies Well updated with network security threats, technologies and trends Administer perimeter firewall Perform regular monitoring of perimeter firewall to ensure it is fully functioning. Perform regular monitoring of perimeter firewall to ensure it is fully functioning. Perform regular monitoring of perimeter firewall to ensure it is fully functioning. Perform regular monitoring of perimeter firewall to ensure it is fully functioning. Perform regular monitoring of perimeter firewall to ensure it is fully functioning. Perform regular monitoring of perimeter firewall to ensure it is fully functioning. Perform regular monitoring of perimeter firewall to ensure it is fully functioning. Perform regular monitoring rules to match the organisation guideline and procedures before action Manage firewall filtering rules to match the organisation's and process users needs, including: Create new rules Amend existing rules Regularly review the list of filtration rules to verify rules still effective and are being used. Cleanup unused rules to maintain efficiency and performance of the firewall Regularly monitor and review access logs to ensure no security breach or any irregularities. When irregularities found, escalate to supervisor and investigate Assist supervisor to review operation procedures, such as "filtration rule change" requests Perform backup of firewall database after any change of settings or filtering rules Document all changes (configuration,
Assessment Criteria	 The integrated outcome requirements of this UoC are the abilities to: Set up the firewall that matches the organisation business requirements and securely protect the internal network from external environment Use the firewall monitoring facilities or security log to monitor irregular activities Follow the organisation's procedures to document all changes and actions made on the firewall
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