



Australian Government

Assessment Requirements for ICTSAS523 Perform stress and load tests on integrated platforms

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 4.0.

Performance Evidence

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

- On two occasions on different systems:
 - Create a test plan including scope, objectives, specific automated tests to place high load on system and expected results and performance impacts
 - Undertake and analyse tests that include analysis of the system's ability to cope with expected high levels of data volume against standards
 - Develop documentation related to stress and load testing including third party responsibilities, processes or steps, test sequencing, and standards for acceptance
 - Identify the high data limits expected by the organisation and reflect in test plan and testing
 - Analyse test results to determine whether system and the individual components operate in the manner expected under expected conditions
 - Identify, diagnose, and rectify faults identified during testing
 - Document the test results and corrective action taken according to project standards and organisational requirements
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Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements and performance criteria of this unit. This includes:

- Key features and processes of automated test tools
- Third party software and resource options relevant to stress and load testing
- Program design and performance characteristics
- Key features and processes of testing techniques
- System load and level of activity monitoring methods
- Tests for system and system technology components

- Typical fault prioritisation
- Third party supplier communication and relationship management
- Organisational documentation procedures

Assessment Conditions

Skills must be demonstrated in a workplace or simulated environment where conditions are typical of those in an ICT working environment. This includes access to or availability of:

- Automated testing tools
- Individual to undertake role of user
- Individual development staff and superior in the organisation
- Organisational requirements relating to the system
- Project documentation, including templates, standards, specifications and user and technical manuals
- Business rules and expected loads
- Technical components of system including platform, software, hardware, and network
- Organisational testing procedures including standards
- System for testing

Assessors of this unit must satisfy the assessor requirements 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=a53af4e4-b400-484e-b778-71c9e9d6aff2>