



Australian Government

Assessment Requirements for ICTSAS521 Perform integration tests

Release: 1

Assessment Requirements for ICTSAS521 Perform integration tests

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 using one or more system:
 - prepare and initialise a test environment
 - construct integration tests addressing memory leakage, global name-space pollution and static variables
 - conduct static tests of integration points including the use of arguments, positional parameters and return values
 - adjust test scripts according to results of earlier component testing
 - conduct tests according to test scripts using appropriate test tools, integration standards and quality benchmarks
 - determine whether components operate according to specifications
 - analyse and classify test results
 - prepare and finalise test results report including gaining approval from superior

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 of two programming languages
- Features and processes of automated test tools
- Systems specifications analysis
- Features and common problems relating to the system being tested
- Key features and processes of integration testing techniques and tools, and associated advantages and disadvantages

Assessment Conditions

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

- Automated testing tools
- Acceptance and test criteria
- Test plan
- Individual contact in operations in the organisation
- Software life cycle model
- Integration standards
- System specifications
- Results of component testing
- System suitable for testing
- Organisational testing procedures including quality benchmarks and integration standards

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>