



Australian Government

Assessment Requirements for ICTPRG555 Implement Object Relational Mapping Framework for data persistence

Release: 1

Assessment Requirements for ICTPRG555 Implement Object Relational Mapping Framework for data persistence

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:

- use ORM framework to handle at least two different transactions
- use ORM framework to manage data persistence to create, update, read and delete operation at least once
- use ORM framework to handle concurrency when working with data persistence
- confirm and use commands affecting at least two entities to the data source.

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:

- functions, features and uses of a database and selected data store
- language used in object-oriented (OO) programming
- different ORM framework methodologies, including:
 - database first methodology
 - object first methodology
- functions and features of an ORM framework
- testing techniques used for ORM framework
- functions and features of transactions, commits and rollbacks
- lazy and eager loading or persistent data objects
- function and use of concurrency
- testing processes for transaction success.

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:

- integrated development environment (IDE) required to use ORM frameworks
- the internet, including connectivity
- hardware, software and applications required for the performance evidence.

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>