Assessment Requirements for ICTSAD612 Implement and maintain uses of containerisation

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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:

- author at least two files for building container images
- run, test and debug a minimum of two running containers instances
- install and run at least one application within container
- monitor a minimum of two container instance in container runtime
- author, build and run container instances from at least one image with two different versions
- set up container image repository in registry and perform push and pull commands at least once.

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:

- features and functions of operating systems
- continuous integration and continuous delivery/deployment methodology, processes and principles
- network protocols including:
  - network communications protocol
  - TCP/IP (transmission control)
- tools and features of registries, command line interface and text editor
- advanced programming language
- organisational policies and procedures for:
  - documenting work and technical requirements
  - evaluating business processes of uses of containerisation
- stages of software development life cycle (SDLC)
- procedures for implementing container services

- basic principles of:
  - computer hardware, networking, operating system, applications, database management systems, cloud solutions and components
  - IT service management systems (ITMS)
  - required programming language, including data serialisation language
  - open-source development tools
- processes for establishing and implementing business requirements for container services
- key functions and features of data flow charts
- methods for monitoring container services, including:
  - manually monitoring services
  - different organisational levels of responsibility relating to application functions.

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:

- the internet, including connectivity
- text editor
- required hardware, software and applications
- vendor products relating to containerisation technology
- containerisation service.

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