



Australian Government

Assessment Requirements for ICTDAT503 Use unsupervised learning for clustering

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 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:

- collect, prepare and cluster data using unsupervised machine learning methodologies and report on the findings on at least two occasions.

In the course of the above, the candidate must:

- research industry standard approaches and methodologies for machine learning
- evaluate and prepare data.

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:

- methodologies for data clustering unlabelled data including intra-cluster cohesion and intra-cluster separation
- industry standard data clustering methodologies including benchmark modelling techniques for data clustering
- report writing methodologies relevant to reporting findings of data clustering activities
- industry standard machine learning methodologies relevant to unsupervised learning
- methodologies for modelling data relevant to unsupervised learning.

Assessment Conditions

Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance of typical activities experienced in the customer service field of work and include access to:

- hardware and software and components required for using unsupervised learning for clustering

- organisational data reporting style guide and reporting processes required for unsupervised learning and machine learning
- a site where activities can be carried out.
- data required for clustering.

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>