



Australian Government

Assessment Requirements for MEM29008 Analyse and manage data in cloud-based systems

Release: 1

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Modification History

Release 1. New unit.

Performance Evidence

There must be evidence the candidate has demonstrated the ability to:

- store and record data
- systematically apply troubleshooting processes and techniques appropriate to the data source and data storage system to address data discrepancies and anomalies
- locate, retrieve, and export data into appropriate format
- analyse at least two workplace data sets to:
 - identify patterns, trends or relationships
 - identify actionable insights from data
 - record and report findings
- use appropriate technical vocabulary in the preparation of data records and reports
- apply self-management skills to work independently and as part of a team
- apply technology skills to:
 - use data storage technology
 - access and retrieve data.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- numeracy skills to analyse and draw meaning from data
- concept of big data and its application within the manufacturing industry, including:
 - the relationship between big data and smart data
 - data driven manufacturing
 - predictive maintenance
 - internet of things (IoT)
- the difference between structured and unstructured data
- cloud computing infrastructure relevant to data transmission and storage
- types, functions, operations of systems used to access and process data including:
 - simple dataset access and processing
 - multiple dataset/big data secure transmission and access processes including availability of special and proprietary programs

- data communication protocols for communication between sensors and cloud
- data patterns, trends or relationships and their value in data analysis and data troubleshooting
- troubleshooting processes and techniques relevant to data discrepancies and anomalies
- standards, codes and regulations for:
 - protecting data against destruction, corruption and unauthorised distribution
 - data storage/retrieval, recordkeeping and backups
 - cyber security for cloud-based data
 - managing data risk
- cyber security principles.
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Assessment Conditions

- Assessors must:
 - have vocational competency in analysing and managing data in cloud-based systems at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires.
- Where possible, assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- There must be access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>