



Australian Government

Assessment Requirements for MSS025032

Report environmental data

Release: 1

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Modification History

Release 1. Unit code changed. Application changed. Performance Criteria changed. Foundation Skills populated. Assessment Requirements changed. Supersedes and is equivalent to MSS025019 Report environmental data.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- manipulate, interpret and report on at least 2 data sets incorporating calculation of at least 4 scientific quantities.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- characteristics of a valid measurement and valid sample
- sources and estimates of uncertainty in measurements
- role of statistics in the interpretation and analysis of environmental data
- environmental data terminology, including variables, dispersion, central tendency, normal distribution, confidence level and replication, inference, causation, association, correlation and hypothesis
- calculations involving evaluation of formulae containing algebraic, power, exponential and logarithmic functions, measures of central tendency, sum of squares, variance and standard deviation
- preparation and interpretation on linear and non-linear graphs and frequency distribution plots
- determination of regression line equations and correlation coefficients
- statistical analysis and significance tests, including t-test, analysis of variance (ANOVA), chi squared test and data acceptability tests, including Q, T and Youden
- procedures for ensuring data traceability
- procedures for verifying data and rectifying mistakes
- procedures for maintaining and filing records and maintaining security of data.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:

- environmental data sets and records
- workplace procedures for recording, processing, storing and reporting environmental data
- test or survey methods
- modelling of industry operating conditions.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5b04f318-804f-4dc0-9463-c3fb9a3fe998>