



Australian Government

Assessment Requirements for MSS024016 Process and present environmental data

Release: 1

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Modification History

Release 1. Updated unit code. Changes to performance criteria. Range of conditions removed. Assessment requirements amended. Equivalent outcome.

Performance Evidence

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

- retrieved, coded, recorded and checked environmental data and calculated scientific and statistical quantities with or without a calculator or computer software, including at least 8 of the following items:
 - converting units involving multiples and submultiples
 - scientific notation, significant figures, round off, estimate and approximate
 - transposing and evaluating formulae
 - fractions, decimals, proportions and percentages
 - percentage and absolute uncertainties in measurements and test results
 - statistical values of data, including mean, median, mode and standard deviation
 - perimeters, angles, areas (m²) and volumes (mL, L, m³) of regular shapes
 - dose (mg), average mass, mass percentage, density, specific gravity, moisture, relative and absolute humidity, viscosity and permeability
 - ratios
 - concentration
 - average count, colonies per swab surface and cell counts
 - variables
 - biological oxygen demand (BOD), chemical oxygen demand (COD) and total organic carbons (TOC)
 - % content of moisture, sulphur dioxide and trace metals
- prepared and presented accurate results in the required format and included data in at least 1 of the following forms:
 - tables, graphs, histograms, pie charts, bar charts, maps
- interpreted data to identify:
 - significant data points
 - variations
 - trends
 - anomalies.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- scientific and technical terminology relevant to job role
- procedures for coding, entering, storing, retrieving and communicating data
- international system of units (SI)
- concepts of metrology, including:
 - all measurements are estimates
 - repeated measurements belong to a sample of the measured parameter
 - repeatability, precision, accuracy, significant figures
 - sources of error, uncertainty associated with measurement steps
 - traceability
- procedures for verifying data and rectifying mistakes
- procedures for maintaining and filing records, and maintaining security of data
- variations and trends in data (including seasonal, diurnal, location and non-conformance).

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 facilities, equipment and resources, including:
 - calculator, computer and relevant software or laboratory information system
 - environmental data sets and records
 - documentation, including user manuals; workplace procedures for recording, processing, storing and reporting environmental data; test or survey methods.

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

Links

The MSS Sustainability Companion Volume implementation Guides are available from VETNet: -

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