



Australian Government

**MSS024028 Process and present
environmental data**

Release: 1

MSS024028 Process and present environmental data

Modification History

Release 1. Unit code changed. Application changed. Performance Criteria changed. Foundation Skills populated. Assessment Requirements changed. Supersedes and is equivalent to MSS024016 Process and present environmental data.

Application

This unit describes the skills and knowledge required to process and perform calculations on environmental data and present data using simple visualisations.

This unit applies to environmental assistants, environmental officers, environmental technicians and similar roles who are required to retrieve data, perform scientific calculations, interpret and present data in tables, graphs and simple maps and keep accurate records.

The individual will solve problems of limited complexity where the information may not be obvious but is not contradictory and can be determined by direct reasoning. A calculator or computer and software will typically be used but is not required.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Environmental monitoring and technology

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Retrieve and check environmental data	1.1 Read and interpret workplace procedures for processing data 1.2 Store and retrieve data using appropriate files and application software 1.3 Verify the quality of data using workplace procedures 1.4 Rectify errors in data using workplace procedures
2. Calculate scientific quantities	2.1 Calculate statistical values for given data 2.2 Calculate scientific quantities using given formulae and data and

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	<p>estimate uncertainties</p> <p>2.3 Ensure calculated quantities are consistent with estimations and expectations</p> <p>2.4 Report all calculated quantities using the appropriate units and correct number of significant figures</p>
3. Present data	<p>3.1 Present data visually including use of clearly labelled tables, charts and simple maps</p> <p>3.2 Graph data using appropriate scales to span the range of data or display trends</p> <p>3.3 Report all data using the appropriate units and number of significant figures</p>
4. Read and interpret data variations and trends	<p>4.1 Compare data with reference values or expected ranges</p> <p>4.2 Recognise and report significant variations and trends in data</p> <p>4.3 Interpret significant features of graphs, including gradients, intercepts, maximum and minimum values, and limit lines</p>
5. Keep accurate written records and maintain confidentiality	<p>5.1 Transcribe information accurately</p> <p>5.2 Verify the accuracy of records</p> <p>5.3 File and store workplace records in accordance with workplace procedures</p> <p>5.4 File all reference documents logically and keep them up-to-date and secured</p> <p>5.5 Maintain the security and confidentiality of data and documentation in accordance with workplace requirements</p>

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret workplace procedures
- Writing skills to record data and information
- Numeracy skills to perform scientific calculations; present and interpret information in tables, graphs and simple maps; and keep accurate records.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSS024016 Process and present environmental data.

Links

Companion Volume Implementation Guides are found in VETNet -

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