

Title	Demonstrate knowledge of, and apply, the Solid Waste Analysis Protocol		
Level	5	Credits	15

Purpose	<p>This unit standard is for people in the public and private sector who manage or supervise resource recovery or solid waste operations.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of the Solid Waste Analysis Protocol; and design, prepare for, manage, and report a solid waste analysis protocol in a workplace context.</p>
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Classification	Resource Recovery > Resource Recovery Theory
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Available grade	Achieved
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Guidance Information

- 1 The Solid Waste Analysis Protocol (SWAP) is published by the Ministry for the Environment and is available in print or electronic form at <http://www.mfe.govt.nz>.
- 2 It is expected that candidates will have sufficient knowledge of statistical principles so that complexities or sources of error are not inadvertently introduced into the survey.
- 3 If a workplace covers a different solid waste disposal pathway from the two procedures presented in the SWAP protocol, the survey methods used for Outcome 2 may be adapted to suit the particular needs of the workplace.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the *Solid Waste Analysis Protocol* (SWAP).

Performance criteria

- 1.1 The aim of SWAP is identified and explained in relation to changing attitudes towards waste and data requirements.

Range	requirements include but are not limited to – definition, classification, quantification, time period, comparability.
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- 1.2 The components of the classification system are explained in relation to composition and use.

Range components – primary, secondary, tertiary.

- 1.3 Sorting of composite materials and potentially hazardous waste is outlined in accordance with the guidelines provided.

- 1.4 Comparisons with earlier data collection are explained in terms of conversion in accordance with Appendices 7 and 9.

- 1.5 Accuracy of survey data is explained in relation to time variability of the waste stream.

- 1.6 Limitations on the use of SWAP data for total waste quantities are explained in relation to alternative methods.

Range three alternative methods.

Outcome 2

Design, prepare for, manage, and report on a solid waste analysis protocol in a workplace context.

Performance criteria

- 2.1 Objectives of the survey and the strategies to be employed are consistent with workplace requirements.

- 2.2 The survey is designed in accordance with SWAP and the sampling method matches the objectives of the survey and the availability of resources.

Range design – objectives, sampling method, classifications, sample size.

- 2.3 The survey is consistent with SWAP in terms of preparations required.

Range sorting area, equipment, personnel, health and safety, training.

- 2.4 Management of data collection ensures that the survey is executed in accordance with SWAP.

Range samples, weighing, sorting, documenting results.

- 2.5 Data is analysed and reported in accordance with SWAP.

Range data – storage, interpretation, confidence interval, retrieval.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 January 2007	N/A
Rollover and Revision	2	28 March 2019	N/A

Consent and Moderation Requirements (CMR) reference

0014

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.