

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.

- 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.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 January 2007	31 December 2025
Rollover and Revision	2	28 March 2019	31 December 2025
Review	3	24 April 2025	31 December 2025

Consent and Moderation Requirements (CMR) reference

0014

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