

<b>Title</b>	<b>Perform gravimetric analyses</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: maintain a balance and describe its use; and perform gravimetric analyses.
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<b>Classification</b>	Science > Chemistry
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<b>Available grade</b>	Achieved
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### Guidance Information

- All work must be carried out in accordance with the quality management system, documented protocol system or Standard Operating Procedures (SOP) typically acceptable in a commercial or research laboratory.
- Health and Safety practices must conform to Australian/New Zealand Standard AS/NZS 2243:2010 Set – *Safety in Laboratories*, available at <http://www.standards.co.nz> and <http://infostore.saiglobal.com/store>.
- Legislation applicable to this unit standard includes:  
Health and Safety at Work Act 2015;  
Hazardous Substances and New Organisms Act 1996.
- Glossary  
*Certified reference value* is a value traceable to a national or international standard.  
*Laboratory procedures* refer to documented systems or processes of operation, which may be found in a SOP manual, quality management system or protocol system documentation. These procedures are external and/or internal laboratory requirements governing laboratory work.
- General requirements for the competence of testing and calibration laboratories can be found at the official website International Accreditation New Zealand (IANZ) <http://www.ianz.govt.nz>.

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### Outcomes and performance criteria

#### Outcome 1

Maintain a balance and describe its use.

**Performance criteria**

- 1.1 Balance is checked for accuracy in accordance with laboratory procedures and manufacturer's instructions.
- 1.2 Balance is maintained in accordance with laboratory procedures or manufacturer's instructions.
- 1.3 Balance is described in terms of its use and the importance of its accuracy.

**Outcome 2**

Perform gravimetric analyses.

**Performance criteria**

- 2.1 Experimental procedure is selected and performed to meet the needs of the analysis.  
  
Range chemical precipitation, and one of – evaporation, thermal decomposition, electrogravimetry.
- 2.2 Analysis to determine sample composition is made within a relative accuracy of ±5% of the certified reference value.

<b>Replacement information</b>	This unit standard and unit standard 26341 replaced unit standard 8435.
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**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	18 June 2010	31 December 2022
Rollover	2	27 January 2015	31 December 2022
Rollover and Revision	3	15 June 2017	31 December 2022
Revision	4	26 October 2017	31 December 2022
Review	5	22 October 2020	31 December 2022

<b>Consent and Moderation Requirements (CMR) reference</b>	0113
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.