

Title	Demonstrate knowledge of plant tissues		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: describe the cell types, organisation, and functions of the primary tissues in a plant; and locate cell types and primary tissue of a plant.
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Classification	Science > Biology
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Available grade	Achieved
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Guidance Information

- 1 Recommended skills and knowledge: Unit 8029, *Work safely in a microbiological laboratory*.
- 2 All work must be carried out in accordance with the quality management system, documented protocol system or Standard Operating Procedures acceptable in a commercial or research laboratory.
- 3 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>.
- 4 Legislation applicable to this unit standard includes:
Health and Safety at Work Act 2015;
Hazardous Substances and New Organisms Act 1996.

Outcomes and performance criteria

Outcome 1

Describe the cell types, organisation, and functions of the primary tissues in a plant.

Range six of – collenchyma, sclerenchyma, epidermal, parenchyma, guard, vessel element, tracheid, sieve tube element, endodermal, cambium.

Performance criteria

- 1.1 Cell types are described in terms of their structure, function, and organisation into tissues.
- 1.2 Labelled outline diagrams are drawn to describe the structure of cells.

Outcome 2

Locate cell types and primary tissue of a plant.

Range one each of – leaf, stem, root.

Performance criteria

2.1 Cell types and primary tissues in views of plant organs are identified and located.

Range plant organs – sectional views, wet-mount section.

Planned review date	31 December 2020
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 January 1997	31 December 2014
Revision	2	19 February 1998	31 December 2014
Review	3	23 November 1999	31 December 2014
Review	4	21 May 2010	N/A
Rollover	5	27 January 2015	N/A
Rollover and Revision	6	15 June 2017	N/A
Revision	7	26 October 2017	N/A

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

Comments on this unit standard

Please contact NZQA National Qualifications Services nqs@nzqa.govt.nz if you wish to suggest changes to the content of this unit standard.