

Title	Demonstrate knowledge for bicycle repairs		
Level	3	Credits	6

Purpose	<p>This unit standard is for people who are currently working, or intending to work, in bicycle repair workshops.</p> <p>People credited with this unit standard are able to describe the components of a multi-speed suspension bicycle; and identify and describe legislation and safety standards relating to bicycle assembly, repair and sales.</p>
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Classification	Retail, Distribution, and Sales > Bicycle Sales and Servicing
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Available grade	Achieved
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Guidance Information

- 1 All tasks are to be carried out in accordance with organisational procedures, the organisation being the enterprise carrying out the work.
- 2 Definitions
Organisational procedures referred to in this unit standard may include but are not limited to the applicable procedures found in the following: organisational performance guidelines and standards; manufacturer's procedures and specifications; Government and local body legislation.
Safety standards relating to this unit standard are:
 Australian/New Zealand Standards
 - AS/NZS 1927:2010 *Pedal bicycles – Safety requirements*;
 - AS/NZS 2063:2008 *Pedal cycle helmets*;
 - AS/NZS 4287:1995 *Child carrier seats for pedal bicycles – Safety requirements*.
 New Zealand Standards
 - NZS 5441.1:1987 *Lighting and retroreflectors for pedal cycles – Specification for lamp units and retroreflectors suitable for fitting to pedal cycles*;
 - NZS 5441.2:1987 *Lighting and retroreflectors for pedal cycles – Code of practice for the fitting of lamp units and retroreflectors to pedal cycles*.
 All standards are published by Standards New Zealand and are available through www.standards.govt.nz.
- 3 Reference texts may include but are not limited to – Barnett, John. *Barnett's Manual DX*. Current edition. Colorado Springs, Co: Barnett Bicycle Institute, and those that come with the bicycle.
- 4 Any relevant Acts, regulations, and bylaws must be complied with during assessment against this standard.

Outcomes and performance criteria

Outcome 1

Describe the components of a multi-speed suspension bicycle.

Range components and their major parts;
wheels – hubs, spokes, rims, tyres, tubes;
drive chain – bottom bracket, chain wheel, chain, pedals, cluster;
gears – shifters, cables, derailleurs;
brakes – levers, cables, callipers, pads;
steering – headset, stem, bars, grips;
frames – drop out, forks, suspension, frame parts;
seat – seat, post;
suspension – springs, cartridges, stanchions, outer leg.

Performance criteria

- 1.1 Components and their major parts are identified on multi-speed suspension bicycles.
- 1.2 Purpose, function and operating principles of components and their major parts are described.

Outcome 2

Identify and describe legislation and safety standards relating to bicycle assembly, repair and sales.

Performance criteria

- 2.1 Legislation and safety standards relating to bicycle assembly, repair and sales are identified.
- 2.2 Legislation and safety standards relating to tasks carried out in a bicycle workshop are described.

Range tasks carried out in a bicycle workshop include – selling bicycles and accessories to customers face to face, assembling and repairing bicycles, fitting bicycle accessories including child carrier seats, lights and reflectors, fitting helmets, adjusting bicycles for size and use of riders.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 August 2003	31 December 2018
Rollover and Revision	2	20 June 2008	N/A
Review	3	8 December 2016	N/A
Revision	4	28 April 2022	N/A

Consent and Moderation Requirements (CMR) reference

0099

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

Comments on this unit standard

Please contact Toi Mai Workforce Development Council qualifications@toimai.nz if you wish to suggest changes to the content of this unit standard.