

Title	Assemble bicycles		
Level	3	Credits	6

Purpose	People credited with this unit standard are able to assemble new bicycles and test assembled bicycles.
----------------	--

Classification	Retail, Distribution, and Sales > Bicycle Sales and Servicing
-----------------------	---

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 It is recommended that people hold credit for Unit 20182, *Use equipment in a bicycle workshop*, before being assessed against this unit standard.
- 2 All tasks are to be carried out in accordance with organisational procedures, the organisation being the enterprise carrying out the work.
- 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 Performance of the outcomes of this unit standard must comply with the following standards which are available through www.standards.govt.nz:
 Australian/New Zealand Standards
 - AS/NZS 1927: 2010 *Pedal bicycles – Safety requirements*;
 - AS/NZS 2063: 2008 *Bicycle 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*.
- 5 Any relevant Acts, regulations, and bylaws must be complied with during assessment against this standard.
- 6 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.
Tools and equipment mean industry approved tools and equipment that are recognised within the industry as being the most suited to complete a task in a safe, professional and competent manner.

- 7 Assessment evidence must be provided while carrying out commercial jobs in the workplace under normal workplace conditions.

Outcomes and performance criteria

Outcome 1

Assemble new bicycles.

Range bicycles include those with and without gears, and with lever operated brakes.

Performance criteria

1.1 Damaged or missing frames and components are identified and replaced.

1.2 Components are fitted and moving parts are set up.

Range may include but is not limited to – torque settings, greasing (seat stem, handle bar stem, pedals), lubrication, gears, brakes, wheels.

1.3 Bicycles are assembled.

Range includes but is not limited to – tools, equipment.

1.4 Work documentation is completed.

Outcome 2

Test assembled bicycles.

Performance criteria

2.1 Assembled bicycles are tested for safety and efficiency.

Range safety and efficiency – stable handling, turning and steering; no failure in parts of the bicycle; no loosening or misalignment of seat, handlebars, controls, reflectors; no loss of components or accessories.

Planned review date	31 December 2026
----------------------------	------------------

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	31 December 2018
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.