Title	Adjust bicycles and fit accessories		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to adjust bicycles for size and use of riders, and fit bicycle accessories.	
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.
- All tasks are to be carried out in accordance with organisational procedures, the organisation being the enterprise carrying out the work.
- Performance of the elements of this unit standard must comply with the following standards, available through <a href="https://www.standards.govt.nz">www.standards.govt.nz</a>:

Australian/New Zealand Standards

- AS/NZS 1927:2010 Pedal bicycles Safety requirements;
- AS/NZS 2063:1996 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.
- 4 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.
- 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.

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

# Outcomes and performance criteria

#### **Outcome 1**

Adjust bicycles for size and use of riders.

Range bicycles – BMX, multi-speed, front suspension;

size - children and adults of different heights;

use - road cycling, off road cycling (mountain biking and BMX biking), touring.

#### Performance criteria

1.1 Seat is set to match rider's size.

Range seat – height, angle, positional rails;

rider's size - height, length of arms and legs.

1.2 Handlebars and stem are set to match rider's size.

Range handlebars and stem settings – height, length, angle, width, lever

reach; rider's size – height, length of arms, length of fingers.

1.3 Clipless pedals are set to match rider's needs.

Range tension, position of pedal and shoe.

1.4 Bicycles are adjusted using appropriate tools and equipment.

## **Outcome 2**

Fit bicycle accessories.

Range accessories – lights, reflectors, mudguards, trainer wheels, toe clips,

shoes/pedals, cleats, helmets, child carrier seats, carriers, seat bags,

computers;

evidence is required for the fitting of three accessories.

## Performance criteria

2.1 Accessories are fitted with appropriate tools and equipment.

Planned review date	31 December 2026
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NZQA unit standard 20184 version 4 Page 3 of 3

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

## Comments on this unit standard

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