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| Title | Assemble bicycles | | |
| Level | 3 | Credits | 6 |

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| 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 assemble new bicycles and test assembled bicycles.</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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| Entry information | |
| Recommended skills and knowledge | Unit 20182, <i>Use equipment in a bicycle workshop.</i> |

Explanatory notes

- 1 All tasks are to be carried out in accordance with organisational procedures, the organisation being the enterprise carrying out the work.
- 2 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.
- 3 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*.
- 4 Any relevant Acts, regulations, and bylaws must be complied with during assessment against this standard.

5 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.

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

Outcomes and evidence requirements

Outcome 1

Assemble new bicycles.

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

Evidence requirements

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.

Evidence requirements

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.

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| Planned review date | 31 December 2021 |
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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 | 31 December 2018 |
| Review | 3 | 8 December 2016 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0225 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact ServicelQ qualifications@ServicelQ.org.nz if you wish to suggest changes to the content of this unit standard.