

Title	Diagnose faults, overhaul, and test firearms		
Level	5	Credits	25

Purpose	People credited with this unit standard are able to: carry out fault diagnoses on defective firearms; dismantle and clean firearms; inspect firearms and repair or replace parts; and assemble and test firearms.
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Classification	Mechanical Engineering > Gunsmithing
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Available grade	Achieved
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Entry information

Critical health and safety prerequisites	Must hold a current New Zealand firearm licence and endorsements. Prerequisite: Unit 21912, <i>Apply safe working practices on an engineering worksite</i> , or demonstrate equivalent knowledge and skills.
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Explanatory notes

- 1 Persons possessing or working on firearms must comply with the licensing laws in accordance with the Arms Act 1983 and the Arms Regulations 1992.
- 2 Legislation
Arms Act 1983.
Arms Regulations 1992.
Customs and Excise Act 1996.
Hazardous Substances and New Organisms Act 1996.
Health and Safety at Work Act 2015.
- 3 Definitions
Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider mechanical engineering industry sectors as examples of best practice.
Firearm is as defined by The Arms Act 1983.
Workplace procedures refer to procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, safety procedures, equipment operating procedures, drawings, job specifications, job breakdowns, assembly instructions, test procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.
- 4 Assessment Information

- a Assessment may require the overhaul of firearms for which limited information, tools, and resources exist.
- b All activities must comply with applicable workplace procedures and must be consistent with accepted industry practice.

Outcomes and evidence requirements

Outcome 1

Carry out fault diagnoses on defective firearms.

Evidence requirements

- 1.1 Operational performance specifications of firearms are established, for each firearm being checked, in accordance with workplace procedures.
- 1.2 Reported faults in firearms are confirmed in accordance with workplace procedures.

Range may include but are not limited to – examination, inspection, check, test.
- 1.3 Deviations from specifications are established and recorded in accordance with workplace procedures.
- 1.4 Diagnosis of faults is carried out in accordance with workplace procedures.
- 1.5 Conclusions are established, and recommendations recorded, in accordance with workplace procedures.

Outcome 2

Dismantle and clean firearms.

Evidence requirements

- 2.1 Supporting overhaul data for firearms, where available, is obtained in accordance with workplace procedures.
- 2.2 Methods and procedures for disassembly are identified relative to the firearm.
- 2.3 Tools to be used for disassembly of firearm are selected in accordance with workplace procedures.
- 2.4 Firearms are dismantled in accordance with workplace procedures.
- 2.5 Parts are cleaned to specification in accordance with workplace procedures.

Range methods include – hand, spray, immersion.

Outcome 3

Inspect firearms and repair or replace parts.

Evidence requirements

- 3.1 Firearm parts are inspected for conformance to manufacturer's overhaul requirements.
- Range includes non-destructive testing but not ultrasonics or x-ray.
- 3.2 Faulty parts are assessed for repair, or replacement, in accordance with workplace procedures.
- 3.3 Defective parts are repaired, or replaced, in accordance with workplace procedures.

Outcome 4

Assemble and test firearms.

Evidence requirements

- 4.1 Firearms are assembled in accordance with workplace procedures.
- 4.2 Firearms are tested in accordance with workplace procedures.
- 4.3 Firearm records are completed in accordance with workplace procedures.

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	28 February 1997	31 December 2016
Revision	2	15 May 2002	31 December 2016
Review	3	23 April 2007	31 December 2017
Review	4	15 September 2016	N/A

Consent and Moderation Requirements (CMR) reference	0013
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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 (CMRs). 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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.