

Title	Demonstrate knowledge of two-stroke petrol engine lubrication, testing and tuning		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: demonstrate knowledge of two-stroke petrol engine lubrication; and testing and tuning a two-stroke petrol engine.
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Classification	Motor Industry > Engines
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Available grade	Achieved
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of the Health and Safety at Work Act 2015; and any subsequent amendments and replacements.
- 3 Definitions
Company requirements refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.
Service information may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.
- 4 It is recommended that people seeking credit for this unit standard first hold credit for Unit 30477, *Demonstrate knowledge of petrol and diesel engines*, before being assessed against this unit standard.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of two-stroke petrol engine lubrication.

Performance criteria

- 1.1 The calculation of fuel-oil ratios is described.
- 1.2 The importance of correct fuel-oil ratios is described.
- Range engine damage, engine performance, using specified oil.
- 1.3 Oil injection system operation is described.

Outcome 2

Demonstrate knowledge of testing and tuning a two-stroke petrol engine.

Performance criteria

- 2.1 Testing and tuning of a two-stroke petrol engine is described.
- Range spark plug(s), compression test, leakage test, power valve operation, carburettor settings, ignition timing, crankcase pressure and vacuum tests, exhaust system inspection.

Replacement information	This unit standard was replaced by skill standard 40477.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2008	31 December 2020
Review	2	22 August 2019	31 December 2027
Review	3	27 March 2025	31 December 2027

Consent and Moderation Requirements (CMR) reference	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.