

Title	Process scrap metal using gas cutting equipment		
Level	3	Credits	5

Purpose	<p>This unit standard is for people working in the scrap metal recycling industry.</p> <p>People credited with this unit standard are able to: prepare for cutting operations; cut scrap metal products using gas cutting equipment; and demonstrate shutdown procedures and clean up after cutting scrap metal.</p>
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Classification	Resource Recovery > Scrap Metal Recycling
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Available grade	Achieved
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Guidance Information

- 1 All work practices must comply with:
Hazardous Substances and New Organisms Act 1996;
Health and Safety at Work Act 2015;
Resource Management Act 1991.
- 2 Hazard controls, safety procedures, and personal protective equipment must be used in accordance with company procedures.
- 3 Assessment against this unit standard requires evidence of cutting in a scrap metal yard and one other location.
- 4 Definition
Company procedures mean the documented methods for performing work activities and include health and safety, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.

Outcomes and performance criteria

Outcome 1

Prepare for cutting operations.

Performance criteria

- 1.1 Work instructions are confirmed and scrap metal to be cut is inspected in accordance with company procedures.
- Range instructions may include but are not limited to – location, safety signage, barricade, finished size; inspection may include but is not limited to – condition, shape, size, hazards.
- 1.2 Tools and equipment are selected to match job requirements and are checked for serviceability, and any corrective action required is taken in accordance with company procedures.
- Range check includes but is not limited to – personal protective equipment, fire extinguisher, cutting equipment.
- 1.3 Health and safety hazards are identified and controlled in accordance with legislation, site requirements, and company procedures.
- Range includes but is not limited to – emergency procedures.
- 1.4 Adverse effects on the environment are identified and controlled in accordance with legislation, site requirements, and company procedures.
- 1.5 Gas cutting equipment is set up and tested in accordance with company procedures.
- Range cylinders, regulators, purging, testing for leaks, selecting pressure, selecting cutting tip.
- 1.6 Scrap metal products are positioned ready for cutting in accordance with company procedures.

Outcome 2

Cut scrap metal products using gas cutting equipment.

Range products – tank, plate, machinery, reinforcing steel, structural steel; evidence is required of three different products; evidence is required of vertical and horizontal cutting.

Performance criteria

- 2.1 Torch is lit safely in accordance with company procedures.
- 2.2 Flame is adjusted for cutting in accordance with company procedures.
- 2.3 Scrap metal is cut to size in accordance with work instructions.
- 2.4 Characteristics, uses, and limitations of gas cutting equipment are explained in terms of recycling scrap metal.

- 2.5 Scrap metal products are cut safely and economically in accordance with company procedures.

Outcome 3

Demonstrate shutdown procedures and clean up after cutting scrap metal.

Performance criteria

- 3.1 Torch is switched off and gas supply is shut off in accordance with company procedures.
- 3.2 Work area is cleared in accordance with site requirements and company procedures.
- 3.3 Work area is checked to ensure fire safety in accordance with site requirements and company procedures.
- 3.4 Tools and equipment are cleaned, checked, maintained, and stored in accordance with company procedures.

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	26 January 2007	31 December 2012
Revision	2	20 May 2011	31 December 2025
Rollover and Revision	3	28 March 2019	31 December 2025
Review	4	27 March 2025	31 December 2025

Consent and Moderation Requirements (CMR) reference

0014

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