

<b>Title</b>	<b>Process scrap metal using gas cutting equipment</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<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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<b>Classification</b>	Resource Recovery > Scrap Metal Recycling
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<b>Available grade</b>	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.

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### 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.

<b>Planned review date</b>	31 December 2023
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### 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	N/A
Rollover and Revision	3	28 March 2019	N/A

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

### Comments on this unit standard

Please contact MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.