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| Title | Recognise, classify, grade, value, and purchase nonferrous metals for scrap metal recycling | | |
| Level | 5 | Credits | 120 |

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| Purpose | <p>This unit standard is for people working in the scrap metal recycling industry who purchase nonferrous metals.</p> <p>People credited with this unit standard are able to: define and describe nonferrous metals for the scrap metal trade; recognise, classify, and grade nonferrous metals for scrap metal recycling; and value and purchase nonferrous scrap metals for recycling.</p> |
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| Classification | Resource Recovery > Scrap Metal Recycling |
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| Available grade | Achieved |
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| Prerequisites | Persons seeking credit for this unit standard must hold a Secondhand Dealers Licence or a Second Hand Dealers Certificate. |
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Guidance Information

- All work practices must comply with:
 - Hazardous Substances and New Organisms Act 1996;
 - Health and Safety at Work Act 2015;
 - Secondhand Dealers and Pawnbrokers Act 2004;
 - the current version of the *Scrap Specifications Circular*, Institute of Scrap Metal Recycling Industries, Inc. (ISRI) available at <http://www.isri.org>.
- Hazard controls, safety procedures, and personal protective equipment must be used throughout operations in accordance with company procedures.
- Assessment against this unit standard requires the candidate to recognise and classify nonferrous metals in a variety of contexts and forms typically encountered by scrap metal purchasers.
- 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.

Recognise refers to distinguishing types of metals in piles of scrap or in manufactured products.

Outcomes and performance criteria

Outcome 1

Define and describe nonferrous metals for the scrap metal trade.

Range aluminium, copper, brass, gunmetal, bronze, lead, zinc, stainless steel.

Performance criteria

1.1 Nonferrous scrap metals and their alloys are defined in accordance with ISRI specifications.

1.2 The classifications for nonferrous scrap metals are identified and described in accordance with ISRI specifications.

Range classification includes – terminology, detailed specifications.

Outcome 2

Recognise, classify, and grade nonferrous metals for scrap metal recycling.

Range evidence is required of classifying metals in the form of – mill scrap, industrial scrap, scrap automobiles and/or railroad scrap, construction scrap, commercial scrap.

Performance criteria

2.1 Non ferrous metals are recognised, classified in accordance with ISRI specifications, and graded in accordance with company procedures.

Range six grades of aluminium, six grades of copper, five grades of brass, three grades of gunmetal, two grades of bronze, two grades of lead, two grades of zinc.

2.2 Stainless steel is recognised and its grading requirements are explained in accordance with company procedures.

Range grading includes but is not limited to – size, foreign metal content.

2.3 Nonferrous metals received for recycling as part of a manufactured product are recognised and recycling requirements are described in accordance with company procedures.

Range may include but is not limited to – electronic scrap, whiteware; evidence is required of five specified products.

Outcome 3

Value and purchase nonferrous scrap metals for recycling.

Range aluminium, copper, brass, gunmetal, lead, bronze, zinc, stainless steel.

Performance criteria

- 3.1 Small quantities of nonferrous metals are valued and purchased from mixed scrap received at a yard in accordance with company procedures.
- Range small quantities would typically be delivered in a vehicle requiring the driver to hold a class 1 driver licence; evidence is required of purchasing three types of scrap metal from three separate loads.
- 3.2 Large quantities of nonferrous scrap metals are valued and purchased in situ in accordance with company procedures.
- Range large quantities would typically require dismantling and/or cutting down for delivery by road in a vehicle requiring the driver to hold a heavy vehicle driver licence; evidence is required of purchasing least two types of scrap metal from two separate loads.
- 3.3 Scrap metals are valued and purchased in accordance with the Secondhand Dealers and Pawnbrokers Act 2004 and company procedures.
- Range evidence is required of on site and off site purchasing.
- 3.4 Scrap metal purchases are recorded in accordance with the Secondhand Dealers and Pawnbrokers Act 2004 and company procedures.

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| Planned review date | 31 December 2023 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
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| Registration | 1 | 26 January 2007 | N/A |
| Rollover and Revision | 2 | 28 March 2019 | N/A |

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| 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>.

Comments on this unit standard

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