Title	Cut aluminium extrusions for the manufacture of aluminium joinery products		
Level	3	Credits	8

Purpose	This entry-level unit standard is for people employed in the aluminium joinery industry.	
	<ul> <li>A person credited with this unit standard is able to:</li> <li>demonstrate knowledge of the tools, machinery, and equipment used for cutting aluminium extrusions;</li> <li>prepare tools, machinery, and work area for safe operation;</li> <li>select and cut aluminium extrusions; and</li> <li>care for tools, machinery, and equipment to maintain production unit integrity.</li> </ul>	

Classification	Joinery > Architectural Aluminium Joinery	
Available grade	Achieved	

# **Guidance Information**

1 Legislation relevant to this unit standard includes – Building Act 2004, Health and Safety at Work Act 2015, and Resource Management Act 1991.

## 2 Definition

Company procedures – the documents and procedures that include company rules, codes and practices; machine and equipment operating instructions; quality and conformance checks; and health and safety requirements.

# Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of the tools, machinery, and equipment used for cutting aluminium extrusions.

NZQA unit standard 22884 version 4
Page 2 of 4

#### Performance criteria

1.1 Tools, machinery, and equipment used for cutting are identified in terms of their types and products produced.

Range saws may include – drop saw, double mitre saw, double end saw,

band saw, bench saw/rip saw, radial arm saw; evidence is required of two different saws;

tools may include – cutting sheets, marker pens, measuring equipment, long nose pliers, steel rule, engineers' square,

hammer, extrusion labels;

evidence is required of four different tools.

1.2 Cutting system is described in terms of company procedures.

#### Outcome 2

Prepare tools, machinery, and work area for safe operation.

#### Performance criteria

- 2.1 Work area is cleared of debris and abrasive material in accordance with company procedures.
- 2.2 Job specifications and quality requirements are verified in accordance with company procedures.
- 2.3 Sequence of operations is planned and verified with a supervisor in accordance with company procedures.
- 2.4 Tools, machinery, and equipment are selected with regard to material and safety, and checked to meet the requirements of the job in accordance with company procedures.
- 2.5 Any defective tools, machines, and equipment are reported to a supervisor in accordance with company procedures.
  - Range defects include physical damage, bluntness.
- 2.6 Machinery are set up for safe operation and without damage to workpiece or machinery or injury to personnel in accordance with company procedures.
  - Range machinery include drop saws, band saws, vertical mitre saws, mitre saws, profile blocks, bench stops, stop systems, cutting lubricant, tape calibration.
- 2.7 Accessories and workholding fixtures are selected and installed on machinery in accordance with manufacturer's instructions and/or company procedures.

## **Outcome 3**

Select and cut aluminium extrusions.

NZQA unit standard 22884 version 4
Page 3 of 4

## Performance criteria

- 3.1 Job sheet and/or cutting list requirements are interpreted to make the most efficient use of available materials in accordance with company procedures.
- 3.2 Materials are selected, checked for conformance to requirements, and laid out in accordance with company procedures.
- 3.3 Any non-conforming materials are stored, or disposed of, in accordance with company procedures.
- 3.4 Extrusions are precision cut in accordance with company procedures.
- 3.5 Extrusions are checked for conformance with the job specifications and quality requirements.
- 3.6 Cut lengths are labelled for identification in accordance with company procedures.
  - Range labelling includes job number, unit number.
- 3.7 Any substandard cut lengths are identified and reported to a supervisor in accordance with company procedures.

#### **Outcome 4**

Care for tools, machinery, and equipment to maintain production unit integrity.

### Performance criteria

- 4.1 Tools, machinery, and equipment are cleaned, lubricated, and maintained in accordance with manufacturer's specifications and/or company procedures.
- 4.2 Tools, machinery, and equipment are set up and used in accordance with manufacturer's recommendations in order to prevent damage to machinery and materials, and injury to personnel.
- 4.3 Work area is cleaned after each operation and waste is removed and placed in specified containers in accordance with company procedures.

Planned review date	31 December 2026
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NZQA unit standard

22884 version 4

Page 4 of 4

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment	
Registration	1	24 August 2006	31 December 2012	
Rollover and Revision	2	20 May 2011	31 December 2017	
Review	3	21 May 2015	31 December 2025	
Review	4	26 May 2022	N/A	

Consent and Moderation Requirements (CMR) reference	0048
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This CMR can be accessed at <a href="http://www.nzqa.govt.nz/framework/search/index.do">http://www.nzqa.govt.nz/framework/search/index.do</a>.

## Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council <u>qualifications@hangaarorau.nz</u> if you wish to suggest changes to the content of this unit standard.