

Title	Demonstrate knowledge of abrasive blasting in the electricity transmission industry		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge of: the preparation requirements for abrasive blasting of electricity transmission structures; and the abrasive blasting process of electricity transmission structures.
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Classification	Electricity Supply > Electricity Supply - Transmission Networks
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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 legislative and industry requirements.
- 2 Legislation, regulations, and /or industry standards relevant to this unit standard include but are not limited to:
 - Electricity Act 1992
 - Health and Safety at Work Act 2015
 - Electricity supply industry codes of practice and documented enterprise procedures including *Safety Manual – Electricity Industry (SM-EI)* and relevant EEA guides available at www.eea.co.nz and any subsequent amendments and replacements.
- 3 Definitions
Asset owner refers to a participant who owns or operates assets used for generating or conveying electricity.
Industry requirements include all asset owner requirements; manufacturers' specifications; and enterprise requirements which cover the documented workplace policies, procedures, specifications, and business and quality management requirements relevant to the workplace in which assessment is carried out.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the preparation requirements for abrasive blasting of electricity transmission structures.

Performance criteria

- 1.1 The health and safety industry requirements are explained.
- 1.2 The hazards, emergency procedures and personal protection equipment (PPE) requirements are described.
- 1.3 Testing and maintenance requirements of blasting equipment prior to the start of blasting is explained.
- 1.4 The requirements for a work plan and site preparation are explained.
- 1.5 The requirement for earthing of equipment and vehicles within the worksite is explained.

Outcome 2

Demonstrate knowledge of the abrasive blasting process of electricity transmission structures.

Performance criteria

- 2.1 Pre-operational equipment checks are explained.
- 2.2 Abrasive blasting media for various substrates and surfaces are described.
Range includes but is not limited to – types, grades, optimum pressures.
- 2.3 The water or slurry purity testing process is described.
- 2.4 Abrasive blasters are described in terms of their classification.
Range water and air assisted.
- 2.5 The application process for cleaning and blasting is explained.
- 2.6 The requirements, procedures and hazards around single and multiple person blasting is explained.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 August 2015	1 December 2020
Review	2	28 September 2017	N/A
Rollover and Revision	3	2 March 2023	N/A

Consent and Moderation Requirements (CMR) reference

0120

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

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangaAraRau.nz if you wish to suggest changes to the content of this unit standard.