

Title	Demonstrate knowledge of health and safety for blaster coating operations		
Level	2	Credits	5

Purpose	People credited with this unit standard are able to: describe health and safety requirements for blaster coating operations; demonstrate knowledge of hazard control and emergency procedures at a blaster coating workplace; identify and describe hazards of protective coating materials; describe personal protective equipment used in blaster coating operations; and describe environmental harm and safety associated with blaster coating operations.
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Classification	Manufacturing Skills > Manufacturing Processes
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes:
Health and Safety at Work Act 2015.
Hazardous Substances and New Organisms Act 1996 and subsequent amendments.
Resource Management Act 1991 and subsequent amendments.
Spray Coating Regulations 1962.
- 2 References
Material safety data sheets.
Product data sheets and labels.
- 3 Definitions
Accepted industry practice refers to codes of practice and standardised procedures accepted by the wider industry as examples of best practice.
Site safety plan refers to the documented safety plan required by law to ensure the site complies with the Health and Safety at Work Act 2015.
Workplace procedures refer to the procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, and procedures to comply with legislative and local body requirements.
- 4 Assessment information
All activities and evidence must be in accordance with workplace procedures and accepted industry practice.

- 5 Recommended skills and knowledge for entry:
Unit standard 497, *Demonstrate knowledge of workplace health and safety requirements.*
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Outcomes and performance criteria

Outcome 1

Describe health and safety requirements for blaster coating operations.

Performance criteria

- 1.1 Requirements for the provision, construction, and maintenance of blasting enclosures are described.
- 1.2 Requirements for the provision and maintenance of protective clothing and amenities for blaster coating operations are described.
- 1.3 Restrictions on abrasive blasting media are described in accordance with the Health and Safety at Work Act 2015.

Outcome 2

Demonstrate knowledge of hazard control and emergency procedures at a blaster coating workplace.

Range an abrasive blasting or a protective coating workplace.

Performance criteria

- 2.1 Methods of identifying potential workplace hazards are described.
- 2.2 Method of reporting workplace hazards is described.
- 2.3 Good housekeeping practices for blaster coating workplaces are identified and the purpose of each is described.
- Range three good housekeeping practices.
- 2.4 Safety factors to be observed when using blaster coating equipment are described.
- Range for abrasive blasting – lifting equipment, blasting equipment;
for protective coatings – mixing equipment, paint brushes, rollers,
spray guns.
- 2.5 Emergency procedures are described in accordance with site safety plan.
- 2.6 Health hazards of blaster coating operations are described in terms of short and long-term effects.
- Range injection, lead, silica, one other.

Outcome 3

Identify and describe hazards of protective coating materials.

Performance criteria

3.1 Possible hazards of protective coating materials are identified and described in accordance with Safety Data Sheets and product data sheets and labels.

Range three different coating materials;
hazards include – personal, environmental.

3.2 Protective coating materials are described in terms of their potential harmful effects on the human body.

Range three harmful effects.

3.3 Protective coating materials are described in terms of their flammability.

Range three products and their flash points.

Outcome 4

Describe personal protective equipment used in blaster coating operations.

Performance criteria

4.1 Personal protective equipment used for blaster coating operations is described in terms of its purpose.

Range may include but is not limited to – overalls, footwear, blast helmet, face mask including flutter valves, breathing apparatus including filters, gloves and gauntlets, waterproof gear, hearing protection, hard hats;
evidence is required for five items.

4.2 The correct use of personal protective equipment for blaster coating operations is described in accordance with manufacturer's instructions.

Range may include but is not limited to – overalls, footwear, blast helmet, face mask including flutter valves, breathing apparatus including filters, gloves and gauntlets, waterproof gear, hearing protection, hard hats;
evidence is required for five items.

Outcome 5

Describe environmental harm and safety associated with blaster coating operations.

Performance criteria

- 5.1 Environmental safety is described in terms of regulations and enactments that apply to abrasive blasting and protective coating processes.
- Range may include but is not limited to – Resource Management Act 1991, Hazardous Substances and New Organisms Act 1996.
- 5.2 Abrasive blasting media and surface preparation processes are described in terms of their potential to harm the environment.
- 5.3 Protective coatings are described in terms of their potential to harm the environment.
- 5.4 Environmental safety requirements for blaster coating operations are described.
- 5.5 Methods for avoiding environmental harm and actions required in the event of accidental discharges are described in accordance with Safety Data Sheets and local authority requirements.
- Range methods of – containment, collection, waste disposal; harm from – spillage, dust, spray, fumes.
- 5.6 Environmental safety measures to be taken when preparing coatings for use are described.

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	28 August 2000	31 December 2012
Review	2	20 November 2006	31 December 2013
Review	3	18 October 2012	31 December 2016
Review	4	16 April 2015	31 December 2019
Rollover and Revision	5	20 April 2017	31 December 2021
Rollover and Revision	6	13 December 2018	31 December 2023
Review	7	26 August 2021	N/A

Consent and Moderation Requirements (CMR) reference	0013
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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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.