

Title	Demonstrate knowledge of snow, snowmaking and snowmaking needs, and undertake basic maintenance on snowmaking equipment		
Level	3	Credits	12

Purpose	People credited with this unit standard are able to: demonstrate knowledge of snow, snowmaking and snowsport area snowmaking needs and requirements; and demonstrate knowledge of and undertake basic maintenance on snowmaking equipment for a snowsport area.
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Classification	Snowsport > Snowsport Area Operations
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Available grade	Achieved
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Guidance Information

- 1 All learning and assessment against this unit standard must be carried out in accordance with the following:
 - relevant legislation including the Health and Safety at Work Act 2015, Accident Compensation Act 2001 and subsequent amendments and associated regulations;
 - alpine industry codes and good practice guidelines including *Snow Safety Code* and *Outdoor Safety Code*; (available at <http://www.mountainsafety.org.nz>);
 - organisational policies and procedures including Emergency Action Plans (EAPs), Standard Operating Procedures (SOPs), and the use of personal protective equipment.
- 2 Definition
Organisational policy and procedures are instructions to staff that may be documented and available for reference at each alpine resort in the form of an operations manual and/or policy and procedures manual.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of snow, snowmaking and snowsport area snowmaking needs and requirements.

Performance criteria

- 1.1 Describe snow metamorphism and snow mechanics in reference to temperature, pressure, environmental conditions and grooming practices.

- 1.2 Provide an overview of the snowmaking process with reference to how machine snow is made.
- 1.3 Identify factors that affect the type and quality of snow and describe options for snowmaking in a range of situations.
- 1.4 Describe methods of monitoring and optimising snow production and quality.
- 1.5 Describe major terrain features and prevailing weather of a snowsport area.
- 1.6 Describe the location of snowmaking hydrants, and their use, using industry recognised terminology.
- 1.7 Describe snowsport area needs and requirements for snowmaking.

Outcome 2

Demonstrate knowledge of and undertake basic maintenance on snowmaking equipment for a snowsport area.

Performance criteria

- 2.1 Describe the components, control systems and capacity of the snowsport area's snowmaking system using technical terms, with reference to the function of each component.
- 2.2 Diagnose and respond appropriately to common faults of equipment components.
- 2.3 Perform regular checking procedures and maintenance routines.

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 April 2017	31 December 2022
Review	2	25 March 2021	N/A

Consent and Moderation Requirements (CMR) reference	0099
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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 Skills Active Aotearoa info@skillsactive.or.nz if you wish to suggest changes to the content of this unit standard.