

Title	Apply knowledge of snowmaking, snowmaking equipment, and safe practice to optimise snow production for a snowsport area		
Level	3	Credits	28

Purpose	People credited with this unit standard are able to apply: safe working practices for snowmaking at a snowsport area; and knowledge of snowmaking and snowmaking equipment to monitor and optimise snow production and quality 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, Privacy Act 2020, and the Human Rights Act 1993, 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 Definitions

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.

Snowsport area's *product* is defined in terms of the snow surface and conditions, its ability to be skied or ridden by a range of skier or boarder abilities, the expectations of customers, and the services provided by the snowsport area.
- 3 Industry guidelines for recording snow and weather information are contained in the *New Zealand Guidelines and Recording Standards for Weather, Snowpack and Avalanche Observations*, (Wellington: New Zealand Mountain Safety Council, 2017).

Outcomes and performance criteria

Outcome 1

Apply safe working practices for snowmaking at a snowsport area.

Performance criteria

- 1.1 Demonstrate safe work practices and compliance with relevant legislation to support own and others safety during snowmaking operation.
- 1.2 Apply knowledge to describe actions of snowmaking personnel for emergency, accident or injury situations.
- 1.3 Erect safety fencing and/or signs to provide safety and advice for customers, workers, and groomers.
- 1.4 Operate snowmaking equipment to ensure personal safety in a variety of conditions according to organisational policy and procedures and manufacturer's operating instructions.
- 1.5 Support safe and effective snowmaking with the use of positive communication skills, decision making skills and active listening to follow instructions.
- 1.6 Apply knowledge of the impact of terrain, weather and snow conditions and organisational requirements to support safe personal travel.

Outcome 2

Apply knowledge of snowmaking and snowmaking equipment to monitor and optimise snow production and quality for a snowsport area.

Performance criteria

- 2.1 Transport, set-up, and secure snowmaking equipment according to snowsport area procedures.
- 2.2 Complete appropriate de-icing of the snowmaking components prior to operation.
- 2.3 Start up and shut down snowmaking equipment in sequence, according to manufacturer's operating instructions.
- 2.4 Operate snowmaking equipment according to manufacturers' specifications, operating instructions and operating parameters of the equipment.
- 2.5 Complete operational and maintenance logs.
- 2.6 Collect local weather data before and during snowmaking and analyse the information and apply to optimise snow production.
- 2.7 Make adjustments to, and position, the snowmaking equipment in relation to terrain, analysis of weather information and snowsport area requirements for snow production and quality.
- 2.8 Monitor and control snow quality and quantity using operating adjustments, to meet the standard of product and production goals required by the snowsport area.

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.