

Title	Supervise heavy machinery operations for use at vegetation fires		
Level	4	Credits	3

Purpose	<p>This unit standard is for personnel who supervise heavy machinery operations at rural fires.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> - demonstrate knowledge of heavy machinery used in vegetation firefighting; - plan heavy machinery vegetation firefighting operations; and - supervise heavy machinery operations at vegetation fires.
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Classification	Fire and Rescue Services > Fire and Rescue Services - Vegetation
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Available grade	Achieved
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Prerequisites	Unit 14564, <i>Demonstrate knowledge of the fire environment on vegetation fire behaviour</i> ; and Unit 3285, <i>Demonstrate knowledge of working safely at vegetation fires</i> ; or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 Recommended: Unit 14565, *Use navigational tools for an incident*; and Unit 14556 *Apply Fire Weather Index System data for fire reduction and readiness measures*; or demonstrate equivalent knowledge and skills.
- 2 Compliance with the fire and emergency agency's Health and Safety policy and procedures is mandatory.
- 3 Assessment against this unit standard must take place under real or simulated conditions.
- 4 Definitions
Fire and rescue emergency agency's requirements refer to policies, procedures and supporting documentation on safety and operation set down by each fire and emergency agency employer or host organisation.
Incident Action Plan (IAP) is a statement of the objectives, strategies, and critical functions to be taken at the incident.
- 5 Assessment against outcome 1 must be in accordance with the fire and emergency agency's requirements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of heavy machinery used in vegetation firefighting.

Performance criteria

1.1 Heavy machinery that can be used for vegetation firefighting is identified and its uses described.

Range three of – bulldozer, grader, excavator, skidder, loader, cultivator, agricultural tractor.

1.2 Logistical requirements for heavy machinery are explained.

Range lead times, personnel support, fuel, transport, lighting, maintenance, operator welfare, health and safety.

Outcome 2

Plan heavy machinery vegetation firefighting operations.

Performance criteria

2.1 Location of fire lines or control lines are planned in accordance with the IAP.

Range factors to consider may include but are not limited to – resources, strategies and tactics, fuels, topography, weather, values at risk, environmental cultural or historic considerations, operators' skills, current and predicted fire behaviour, production rates.

2.2 Machine operators and any support personnel are briefed in accordance with the IAP.

Range includes but is not limited to – tasks assigned, limiting factors, risk to life and property, potential hazards, safety considerations, environmental considerations, historic and cultural sites.

Outcome 3

Supervise heavy machinery operations at vegetation fires.

Performance criteria

3.1 Operational tasks are carried out in accordance with the requirements of the IAP and performance measures.

Range personnel, machinery employed.

3.2 Fire behaviour is monitored, and risks continuously assessed and communicated, to ensure safe and effective operational activity.

- 3.3 Safety and welfare of heavy machinery operator(s) and any support personnel are monitored and maintained.
- 3.4 Progress towards achievement of IAP objectives is monitored and reported, and relevant documentation is completed.

Range includes but is not limited to – fire behaviour, risk assessment, machinery status and productivity, environmental cultural or historical impacts; post-fire rehabilitation needs; safety incident reporting.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 March 1995	31 December 2023
Revision	2	21 May 1998	31 December 2023
Review	3	25 March 2004	31 December 2023
Review	4	20 November 2009	31 December 2023
Review	5	30 September 2021	N/A

Consent and Moderation Requirements (CMR) reference	0039
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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 The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.