

## Lead heavy machinery operations for use at vegetation fires

**Level** 4

**Credits** 3

**Purpose** This unit standard is for personnel at rural fires where the use of heavy machinery is required.

People credited with this unit standard are able to: demonstrate knowledge of heavy machinery used in vegetation fire fighting; plan heavy machinery fire fighting operations; and lead heavy machinery operations at vegetation fires.

**Subfield** Fire and Rescue Services

**Domain** Fire and Rescue Services - Vegetation

**Status** Registered

**Status date** 20 November 2009

**Date version published** 20 November 2009

**Planned review date** 31 December 2014

**Entry information** Recommended: Unit 14564, *Demonstrate knowledge of the fire environment on vegetation fire behaviour*, and Unit 3285, *Demonstrate knowledge of protection of personal safety at vegetation fires*; or demonstrate equivalent knowledge and skills.

**Accreditation** Evaluation of documentation and visit by NZQA and industry.

**Standard setting body (SSB)** Fire and Rescue Services Industry Training Organisation

**Accreditation and Moderation Action Plan (AMAP) reference** 0039

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

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### Special notes

- 1 Compliance with the fire and rescue service provider's Health and Safety policy and procedures is mandatory.
- 2 Assessment against this unit standard may take place under real or practical simulated conditions.

- 3 The primary reference for this unit standard is *Lead heavy machinery operations for use at vegetation fires Student Notes*, National Rural Fire Authority (NRFA) (Wellington: NRFA, 2005). This reference is available from the NRFA, PO Box 2133, Wellington 6140.
- 4 Definitions  
*Fire and rescue service provider's requirements* refers to policies and procedures on safety and operation set down by each fire and rescue service employer or host organisation.  
*Incident Action Plan (IAP)* is a statement of the objectives, strategies, and critical functions to be taken at the incident.

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## Elements and performance criteria

### Element 1

Demonstrate knowledge of heavy machinery used in vegetation fire fighting.

#### Performance criteria

- 1.1 Heavy machinery that can be used for rural fire fighting is identified and its uses described in accordance with the primary reference.
- Range three of – bulldozer, grader, excavator, skidder, loader, cultivator, agricultural tractor.
- 1.2 Logistical requirements for heavy machinery are explained in accordance with the fire and rescue service provider's requirements.
- Range lead times, personnel support, fuel, transport, lighting, maintenance.

### Element 2

Plan heavy machinery fire fighting operations.

#### Performance criteria

- 2.1 Location of fire lines or control lines meets the objectives of the incident action plan.
- Range may include but is not limited to – resources, tactics, fuels, topography, values at risk, environmental considerations, operators' skills, current and predicted fire behaviour, production rates.
- 2.2 Briefing of machine operators and support personnel is in accordance with the IAP.
- Range may include but is not limited to – tasks assigned, limiting factors, potential hazards, safety considerations, environmental considerations, historic and cultural sites.

- 2.3 Heavy machinery site impacts are reported for post-fire rehabilitation planning in accordance with the fire and rescue service provider's requirements.

### **Element 3**

Lead heavy machinery operations at vegetation fires.

#### **Performance criteria**

- 3.1 Operational tasks are carried out in accordance with the requirements of the IAP.

Range personnel, machinery employed.

- 3.2 Resources used and services provided are communicated and recorded in accordance with the fire and rescue service provider's requirements.

Range fire behaviour, machinery status, changes in IAP, environmental considerations.

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#### **Please note**

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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#### **Comments on this unit standard**

Please contact the Fire and Rescue Services Industry Training Organisation [info@frsito.org.nz](mailto:info@frsito.org.nz) if you wish to suggest changes to the content of this unit standard.