
**FIRE AND RESCUE SERVICES -
VEGETATION**
**Lead heavy machinery operations for
use at vegetation fires**

level:	4
credit:	3
final date for comment:	March 2008
expiry date:	December 2009
sub-field:	Fire and Rescue Services
purpose:	<p>This unit standard is for personnel at rural fires where the use of heavy machinery is required.</p> <p>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 to vegetation fires.</p>
entry information:	<p>Recommended: Unit 14564, <i>Demonstrate knowledge of the fire environment on vegetation fire behaviour</i>; and Unit 3285, <i>Demonstrate knowledge of protection of personal safety at vegetation fires</i>; or demonstrate equivalent knowledge and skills.</p> <p>People seeking credit for this unit standard must have prior competence in supervisory management skills.</p>
accreditation option:	Evaluation of documentation and visit by NZQA and industry.
moderation option:	A national moderation system of moderation networks has been established by the Fire and Rescue Services Industry Training Organisation.

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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 knowledge and skills required for this unit standard may be demonstrated by previous experience in working with heavy machinery within a forestry context.

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 and production rates described in accordance with manufacturers' specifications.

Range: three of the following - bulldozer, grader, excavator, skidder, loader, cultivator, agricultural tractor.
- 1.2 Logistic requirements for heavy machinery are explained in accordance with the requirements of the fire and rescue service provider.

Range: lead times, personnel support, fuel, transport, lighting, maintenance.

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element 2

Plan heavy machinery fire fighting operations.

performance criteria

- 2.1 Location of fire lines or control lines meets objectives of the incident action plan.
- Range: resources, tactics, fuels, topography, values at risk, environmental considerations, operators' skills, fire behaviour and current and predicted fire behaviour.
- 2.2 Briefing of machine operators and support personnel is in accordance with the incident action plan.
- Range: tasks assigned, limiting factors, potential hazards, safety considerations, environmental considerations, historic and cultural sites.
- 2.3 Post-fire rehabilitation is planned in conjunction with fire operations management personnel in accordance with the requirements of the fire and rescue service provider.

element 3

Lead heavy machinery operations to vegetation fires.

performance criteria

- 3.1 Tasks are carried out in accordance with the requirements of the incident action plan.
- Range: expertise of personnel, machinery employed.
- 3.2 Recording of resources used and services provided are communicated and recorded in accordance with the requirements of the fire and rescue service provider.
- Range: fire behaviour, machinery status, changes in incident action plan, environmental considerations.

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Comments on this unit standard

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

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority 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 providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0039 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.