
**FIRE AND RESCUE SERVICES -
VEGETATION**
**Lead prescribed vegetation burning
operations**

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 who are required to supervise crews engaged in the light up and patrol of prescribed burning operations and for burning out operations at wild fires.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of vegetation burning equipment; demonstrate knowledge of lighting up patterns and hand ignition techniques; supervise a lighting-up crew; assess environment and fire behaviour during lighting up operations; and communicate during a vegetation burning operation.</p>
entry information:	<p>Recommended: Unit 14564, <i>Demonstrate knowledge of the fire environment on vegetation fire behaviour.</i></p> <p>Prerequisite: Unit 3285, <i>Demonstrate knowledge of protection of personal safety at vegetation fires</i>, or demonstrate equivalent knowledge and 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.

**FIRE AND RESCUE SERVICES -
VEGETATION**
**Lead prescribed vegetation burning
operations**

- 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 must take place with the use of live fire.
 - 3 The *higher authority* referred to in this unit standard will be a fire operations supervisor or fire officer in charge of the burning operations.

Elements and Performance Criteria

element 1

Demonstrate knowledge of vegetation burning equipment.

performance criteria

- 1.1 Performance characteristics and capabilities of burning equipment are described in accordance with manufacturers' specifications.

Range: igniters, drip torches, pressurised burners, backpack flame-throwers.
- 1.2 Safety requirements for hand operated burning equipment are explained in accordance with fire and rescue service provider's requirements.

**FIRE AND RESCUE SERVICES -
VEGETATION**
**Lead prescribed vegetation burning
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element 2

Demonstrate knowledge of lighting up patterns and hand ignition techniques.

performance criteria

- 2.1 Light up methods and patterns and safe work requirements are explained in accordance with the requirements of the fire and rescue service provider.
- Range: any four of the following - ignition point spacing, strip lighting, central ignition, spot ignition, back burning, flank burning, ring burning.
- 2.2 Hand ignition techniques are explained in accordance with the requirements of the fire and rescue service provider.

element 3

Supervise a lighting up crew.

performance criteria

- 3.1 Tasks are allocated to make optimal use of the competence and abilities of crewmembers in accordance with the requirements of the fire and rescue service provider.
- 3.2 Crew members are briefed in accordance with the requirements of the fire and rescue service provider.
- Range: tasks, responsibilities, escape routes, safety procedures.
- 3.3 Crew performance and safety is monitored and corrective action taken in accordance with the requirements of the fire and rescue service provider.

**FIRE AND RESCUE SERVICES -
VEGETATION**
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operations**

element 4

Assess fire environment and fire behaviour during lighting-up operations.

performance criteria

- 4.1 The fire environment and fire behaviour is monitored in accordance with the requirements of the fire and rescue service provider.
- 4.2 Changes in the fire environment and the fire behaviour are assessed and lighting up action modified in accordance with the requirements of the fire and rescue service provider.

element 5

Communicate during a vegetation burning operation.

Range: crew, fire supervisors, higher authority.

performance criteria

- 5.1 Communication is maintained in accordance with the requirements of the fire and rescue service provider.
- 5.2 Information is communicated in accordance with the requirements of the fire and rescue service provider.

Range: work progress, fire behaviour, crew safety.

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.

**FIRE AND RESCUE SERVICES -
VEGETATION**
**Lead prescribed vegetation burning
operations**

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>.