
**FIRE AND RESCUE SERVICES -
VEGETATION**
**Demonstrate knowledge of protection of
personal safety at vegetation fires**

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| level: | 3 |
| credit: | 3 |
| final date for comment: | March 2008 |
| expiry date: | December 2009 |
| sub-field: | Fire and Rescue Services |
| purpose: | People credited with this unit standard are able to demonstrate knowledge of: elements of vegetation fire behaviour; vegetation fire suppression strategies; attendance to personal safety on the incident ground; and safe practices when working at vegetation fires. |
| entry information: | Open. |
| 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. |
| special notes: | <ol style="list-style-type: none">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 the Fire and Rescue Service Industry Training Organisation's learning resource <i>Demonstrate knowledge of protection of personal safety at vegetation fires</i>. This reference is available from FRSITO, PO Box 11988, Wellington. |

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- 4 Definitions
LACES refers to as Lookouts, Awareness or Anchor points, Communications, Escape routes, Safety zones.
Hazard is defined by the Health and Safety in Employment Act 1992, and includes dangerous situations.

Elements and Performance Criteria

element 1

Demonstrate knowledge of elements of vegetation fire behaviour.

performance criteria

- 1.1 Vegetation fire science is described in accordance with the primary reference.
Range: fire triangle, fuel factors, stages of combustion, methods of heat transfer, removal of fire triangle elements.
- 1.2 The vegetation fire environment and their affects on the fire behaviour are described in accordance with the primary reference.
Range: any four factors.
- 1.3 Vegetation fires are described in accordance with the primary reference.
Range: types, parts, spread patterns.

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element 2

Demonstrate knowledge of vegetation fire suppression strategies.

performance criteria

- 2.1 Direct and indirect attack of vegetation fires are described in accordance with the primary reference.
- 2.2 The rules of fire suppression are described in accordance with the primary reference.
- 2.3 Stages of fire extinguishment are described in accordance with the primary reference.
- 2.4 Communication requirements and procedures are explained in accordance with the requirements of the fire and rescue service provider.

element 3

Demonstrate knowledge of attendance to personal safety on the incident ground.

performance criteria

- 3.1 Hazards of a vegetation fire are identified in accordance with the primary reference.
- 3.2 Measures taken to protect against personal injury are identified in accordance with the primary learning resource.

Range: physical factors, preventative measures, protective measures, LACES.

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- 3.3 An individual's physical and medical limitations are identified in terms of fire fighting activities in accordance with the fire and rescue service provider's requirements.
- 3.4 Emergency procedures in the event of being overtaken by a fire are described in accordance with the primary reference.

element 4

Demonstrate knowledge of safe practices when working at vegetation fires.

performance criteria

- 4.1 Safety requirements when working in the vicinity of hand tools and portable equipment are identified in accordance with the primary reference.
- 4.2 Safety requirements when working in the vicinity of heavy support machinery are identified in accordance with the primary reference.
- 4.3 Ground safety requirements when working in the vicinity of aircraft are identified in accordance with the primary reference.

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.

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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>.