

Demonstrate knowledge of protection of personal safety at vegetation fires

Level 3

Credits 3

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.

Subfield Fire and Rescue Services

Domain Fire and Rescue Services - Vegetation

Status Registered

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Entry information Open.

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>.

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 *Working Safely at Vegetation Fires Learner Notes*, Fire and Rescue Services Industry Training Organisation (FRSITO) (Wellington: FRSITO, 2008). This reference is available from FRSITO, PO Box 11988, Wellington 6142.

4 Definitions

LACES refers to 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.

Fire and rescue service provider's requirements refer to policies and procedures on safety and operation set down by each fire and rescue service employer of host organisation.

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 A vegetation fire environment and its effect on fire behaviour are described in accordance with the primary reference.
- Range weather, fuel, topography.
- 1.3 Vegetation fires are described in accordance with the primary reference.
- Range types, parts, spread patterns.

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 fire and rescue service provider's requirements.

Element 3

Demonstrate knowledge of personal safety on the incident ground.

Performance criteria

- 3.1 Hazards of a vegetation fire are identified in accordance with the primary reference.
- Range must include but is not limited to – weather, fuel, topography.
- 3.2 Measures taken to protect against personal injury are identified in accordance with the primary reference.
- Range preventative measures, protective measures, LACES.
- 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 Survival procedures in the event of being threatened by a fire are described in accordance with the primary reference.
- Range buildings, vehicles, in the open.

Element 4

Demonstrate knowledge of safe practices when working at vegetation fires.

Performance criteria

- 4.1 Safety requirements when working with 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 drop zones are identified in accordance with the primary reference.

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.

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.