

Apply Fire Weather Index System data for fire reduction and readiness measures

Level 4

Credits 4

Purpose People credited with this unit standard are able to: demonstrate knowledge of the Fire Weather Index (FWI) System; demonstrate knowledge of the FWI tables and their use; and select fire reduction and readiness measures.

Subfield Fire and Rescue Services

Domain Fire and Rescue Services - Vegetation

Status Registered

Status date 20 November 2009

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Entry information Prerequisite: Unit 14564, *Demonstrate knowledge of the fire environment on vegetation fire behaviour*, 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>.

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 the *Fire Weather Index System Tables of New Zealand*, National Rural Fire Authority (NRFA) (Wellington: NRFA, 1993). This reference is available from the NRFA, PO Box 2133, Wellington 6140.

4 Definition

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 or host organisation.

Elements and performance criteria

Element 1

Demonstrate knowledge of the Fire Weather Index (FWI) System.

Performance criteria

- 1.1 The structure and purpose of the FWI system is explained in accordance with the primary reference.
- 1.2 Weather inputs required for use of the FWI system are listed and explained in accordance with the primary reference.

Range significance, measurement standard.
- 1.3 Components of the FWI system are listed and their significance explained in accordance with the primary reference.

Element 2

Demonstrate knowledge of the FWI tables and their use.

Performance criteria

- 2.1 Layout and use of the FWI tables are explained in accordance with the primary reference.
- 2.2 Manual calculations of codes and indices are carried out from given data in accordance with the primary reference.

Element 3

Select fire reduction and readiness measures.

Performance criteria

- 3.1 Fire reduction measures taken are related to the values of the FWI codes and indices and the fire and rescue service provider's requirements.

Range restrictions, permit measures, publicity, signs, trigger points.

3.2 Readiness levels are adjusted in accordance with FWI codes and indices and the fire and rescue service provider's requirements.

Range resource levels, resource location, resource types, response times.

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.