

<b>Title</b>	<b>Protect personal safety and the safety of others at flood incidents</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	<p>This unit standard is for people working in any role that may require them to work in, or in proximity to, flood waters.</p> <p>People credited with this unit standard are able to demonstrate knowledge of environmental considerations relating to floods, and demonstrate safety techniques when working in floodwaters.</p>
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<b>Classification</b>	Civil Defence > Civil Defence Operation
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<b>Available grade</b>	Achieved
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### Explanatory notes

- 1 Relevant texts for this unit standard include the *Riversafe™ Training Guide*, available from <http://www.riversafe.org.nz>, and the Mountain Safety Council video *River Safety – Do You Need To Cross?*, available by contacting the Mountain Safety Council at [info@mountainsafety.org.nz](mailto:info@mountainsafety.org.nz).
- 2 The practical assessment against this unit standard may be carried out under actual or simulated flood conditions.
- 3 For outcome 2 a grade 1 river shall be used, based on the international river grading system.
- 4 For outcome 2 the candidate must wear appropriate personal protective equipment. The minimum requirements are a water helmet and personal floatation device complying with New Zealand Standard NZS 5823:2005 *Specification for buoyancy aids and marine safety harnesses and lines*.
- 5 *Industry best practice* refers to the documented policies, procedures, and specifications accepted by competent industry practitioners as being current practice. These practices may be documented in organisational material, codes of practice, manufacturer's instructions, legislation, or the RAPID training material (<http://www.rapid.org.nz>).

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## Outcomes and evidence requirements

### Outcome 1

Demonstrate knowledge of environmental considerations relating to floods.

#### Evidence requirements

- 1.1 Types of floods are identified in terms of their characteristics.
- Range types – gradual onset, surface, lake, riverine, rapid onset, dam, flash, coastal, tsunami.
- 1.2 River features are identified and described in terms of industry best practice.
- Range eddies, waves, recirculating waves, buffer waves, undercut banks, rapids, strainers, obstacles, waterfalls.
- 1.3 Potential hazards of crossing flooded rivers and floodwaters are described in terms of industry best practice.
- Range depth, speed of current, rapids, waterfalls, strainers/obstacles, water temperature, foot entrapment.
- 1.4 Potential medical problems associated with floodwater, and their treatments, are described in terms of industry best practice.
- Range fatigue, dehydration, hypothermia, hypothermia induced debility (HID), cold water immersion, contact with contaminated water.

### Outcome 2

Demonstrate safety techniques when working in floodwaters.

#### Evidence requirements

- 2.1 Survival swim is demonstrated in accordance with industry best practice.
- Range position in water, looking for downstream obstacles, ferry angle used, pushing off obstacles if needed.
- 2.2 Shallow river crossing is demonstrated in accordance with industry best practice.
- Range solo, line astern, line abreast, wedge;  
evidence of three types of river crossing must be demonstrated.
- 2.3 Throw bag use, to rescue a swimmer, is demonstrated in accordance with industry best practice.

<b>Planned review date</b>	31 August 2014
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 April 2006	N/A
Rollover and Revision	2	18 July 2013	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0223
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR 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 (EmQual) [info@emqual.org.nz](mailto:info@emqual.org.nz) if you wish to suggest changes to the content of this unit standard.