

Title	Protect personal safety and the safety of others at flood incidents		
Level	2	Credits	2

Purpose	<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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Classification	Civil Defence > Civil Defence Operation
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Available grade	Achieved
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Guidance Information

- 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.
- 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>).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of environmental considerations relating to floods.

Performance criteria

- 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.

Performance criteria

- 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.

Replacement information	This unit standard was replaced by skill standard 40696.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 April 2006	31 December 2027
Rollover and Revision	2	18 July 2013	31 December 2027
Review	3	24 July 2025	31 December 2027

Consent and Moderation Requirements (CMR) reference

0223

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.