

# 1XXXXX Provide support at urban search and rescue operations

<b>Kaupae   Level</b>	3
<b>Whiwhinga   Credit</b>	3
<b>Whāinga   Purpose</b>	<p>This skill standard is for people in support roles at urban structural collapse incidents.</p> <p>People credited with this skill standard will be able to explain urban search and rescue (USAR) response structures, apply safe work practices used in USAR activities, outline building construction and collapse patterns, and demonstrate surface search and rescue techniques.</p>

## Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Explain urban search and rescue response structures in accordance with USAR General Rescue Manuals.	a. Define urban search and rescue roles and responsibilities.
	b. Explain types and applications of specialist resources.
	c. Explain initial action strategies and the incident command systems.
	d. Explain logistics and planning considerations in urban search and rescue operations.
2. Apply safe working practices used in urban search and rescue activities/operations.	a. Select personal protective equipment required for specific urban search and rescue activities.
	b. Identify personal health and safety challenges and management strategies related to response work.
	c. Identify situational and environmental hazards and outline control methods.
	d. Apply personal and general safe working practices specific to urban search and rescue activities/operations.
	a. Outline methods of building construction and associated hazards when collapsed.

3. Outline building construction methods and recognise associated structural collapse patterns.	b. Identify structural collapse patterns and potential victim locations.
	c. Recognise indicators of secondary structural collapse.
4. Demonstrate surface search and rescue techniques in urban search and rescue activities.	a. Outline a structural collapse response plan.
	b. Plan search activities to systematically cover all search areas, using sectoring and geographic identification.
	c. Use international marking systems for search assessment and victim marking.
	d. Demonstrate safe and effective urban search and rescue techniques.

### Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

- This standard may be assessed in simulated conditions.
- Assessment of this standard must be consistent with the latest version of the primary reference documents for this standard: USAR Manual and The General Rescue Manual.
- Assessment locations may include various realistic environments such as cliffs, bushland, rubble piles, and demolition sites.
- Structural collapse patterns include including curtain fall wall, inward or outward, lean over, lean to floor, angle wall, 'V' collapse pattern.
- Response plans include reconnaissance, elimination of utilities, primary surface search and rescue, exploration of voids, access by selected debris removal, terminate by general debris removal.
- Urban search and rescue techniques include line and hail search, rubble crawl, stretcher walk, and team communication.

### Ngā momo whiwhinga | Grades available

Achieved

### Ihirangi waitohu | Indicative content

#### Urban search and rescue response structures.

- Urban search and rescue response roles and responsibilities: awareness, responder, technician, and manager roles.
- Specialist resources for urban structural collapse incidents: heavy, medium, rescue, support, medical, communications, shoring, animals, and services.
- Incident command systems and initial action strategies.
- Logistical and planning considerations.

#### Safe working practice for USAR operations/activities.

- Personal protective equipment and health considerations: helmet, whistle, full-length heavy-duty clothing, headlamp, hand torch, safety goggles, dust mask, gloves, first aid kit, knife or utility scissors, safety boots, ear plugs, knee pads, elbow pads.

- Personal health and hygiene issues and management strategies: dehydration, fatigue, body substance isolation, stress, claustrophobia, anxiety, panic.
- Urban search and rescue hazard identification and management.
- Hazard management techniques: structural instability, below-debris hazards, surface hazards, overhead hazards, hazardous materials, utilities.

### Building construction and structural collapse.

- Building construction methods: light timber, reinforced masonry, unreinforced masonry, concrete tilt up, reinforced concrete and steel.
- Structural collapse patterns: curtain fall wall, inward or outward, lean over, lean to floor, angle wall, 'V' collapse pattern.
- Indicators of secondary structural collapse: movement in structure, visual indicators, audible indicators.
- Structural collapse response planning: reconnaissance, elimination of utilities, primary surface search and rescue, exploration of voids, access by selected debris removal, terminate by general debris removal.

### Surface search and rescue techniques.

- Structural collapse response planning: reconnaissance, elimination of utilities, primary surface search and rescue, exploration of voids, access by selected debris removal, terminate by general debris removal.
- Systematic search planning: sectoring search areas, geographical identification.
- International marking systems: search assessment and victim marking.
- USAR techniques: line and hail search, rubble crawl, stretcher walk, terminology, personal protective equipment, silence, team communication, signals, debris removal, international warning signals.

### Rauemi | Resources

Where the resources have been updated, please refer to the latest version.

- Civil Defence and Emergency Management Act 2002.  
<https://www.legislation.govt.nz/act/public/2002/0033/latest/whole.html>
- FENZ USAR Manual. Available from Fire and Emergency New Zealand (FENZ).
- Health and Safety at Work Act 2015.  
<https://www.legislation.govt.nz/act/public/2015/0070/latest/DLM5976660.html>
- The General Rescue Manual, available from the National Emergency Management Agency (NEMA).

### Pārongo Whakaū Kounga | Quality assurance information

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Toitū Te Waiora, Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Community and Social Services, Civil Defence Emergency Management, Civil Defence Emergency Management Response
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0223

<b>Hātepe   Process</b>	<b>Putanga   Version</b>	<b>Rā whakaputa   Review Date</b>	<b>Rā whakamutunga mō te aromatawai   Last date for assessment</b>
<b>Rēhitatanga   Registration</b>	1	31 December 2029	N/A
<b>Kōrero whakakapinga   Replacement information</b>			
<b>Rā arotake   Planned review date</b>	31 December 2029		

Please contact Toitū te Waiora Community, Health, Education, and Social Services Workforce Development Council at [qualifications@toitutewaiora.nz](mailto:qualifications@toitutewaiora.nz) to suggest changes to the content of this skill standard.