

<b>Title</b>	<b>Demonstrate knowledge of, and provide support at, urban search and rescue operations</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	<p>This unit standard is for people involved in a support role at urban structural collapse incidents.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: urban search and rescue response structures, and safety and incident management; hazards associated with urban search and rescue operations; building construction methods and associated structural collapse patterns; and apply surface search and rescue techniques at urban search and rescue incidents.</p>
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<b>Classification</b>	Specialist Rescue > Urban Search and Rescue - Operations
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Assessment of this unit standard may be conducted in a risk-managed simulated urban search and rescue incident.
- 2 Performance criteria of the elements in this unit standard must comply with the Ministry of Civil Defence & Emergency Management *USAR Awareness Student Manual* and *USAR General Rescue Student Manual*.

Copies of the above resources are available from:

Ministry of Civil Defence & Emergency Management

PO Box 5010

Wellington;

or from <http://www.usar.govt.nz> - go USAR Training and then to USAR Training Resources.

- 3 Assessment sites may include: sea cliff area, rocky bush land, concrete recycling yard, quarries, tip areas, rubble piles, demolition areas, building sites.
- 4 The legislation relevant to this unit standard comprises of the following: Civil Defence Emergency Management Act 2002, Fire Service Act 1975, Police Act 1958, Health and Safety in Employment Act 1992, and their subsequent amendments or replacements.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of urban search and rescue response structures, and safety and incident management.

#### Performance criteria

- 1.1 Urban search and rescue training roles are defined in terms of functions and responsibilities.
- Range awareness, responder, technician, manager.
- 1.2 Specialist resources are explained in terms of their type, role, and application.
- Range heavy, medium, rescue, support, medical, communications, shoring, animals, services.
- 1.3 The minimum equipment requirements of personal protection for responding personnel are described.
- Range 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.
- 1.4 Personal health and hygiene issues and management strategies are identified.
- Range dehydration, fatigue, body substance isolation, stress, claustrophobia, anxiety, panic.
- 1.5 Initial action strategies and incident command systems are explained.
- 1.6 Logistical and planning considerations are explained.

### Outcome 2

Demonstrate knowledge of hazards associated with urban search and rescue operations.

#### Performance criteria

- 2.1 Situational and environmental hazards and respective hazard management techniques are identified.
- Range structural instability, below-debris hazards, surface hazards, overhead hazards, hazardous materials, utilities.
- 2.2 Safe working practices used in urban search and rescue activities are identified.
- Range personal, planning, general.

### Outcome 3

Demonstrate knowledge of building construction methods, and associated structural collapse patterns.

#### Performance criteria

3.1 Methods of building construction, and associated hazards when collapsed, are described.

Range light timber, reinforced masonry, unreinforced masonry, concrete tilt up, reinforced concrete and steel.

3.2 Structural collapse patterns and potential victim locations are identified.

Range curtain fall wall, inward or outward, lean over, lean to floor, angle wall, 'V' collapse pattern.

3.3 Indicators of secondary structural collapse are identified.

Range movement in structure, visual indicators, audible indicators.

### Outcome 4

Demonstrate knowledge of, and apply surface search and rescue techniques at urban search and rescue incidents.

#### Performance criteria

4.1 Knowledge of structural collapse response plan is demonstrated.

Range reconnaissance, elimination of utilities, primary surface search and rescue, exploration of voids, access by selected debris removal, terminate by general debris removal.

4.2 Search activities are planned systematically to cover all of the search area.

Range sectoring search areas, geographical identification.

4.3 International marking systems are interpreted and applied.

Range search assessment, victim marking.

4.4 Urban search and rescue techniques are practically and safely demonstrated.

Range line and hail search, rubble crawl, stretcher walk, terminology, personal protective equipment, silence, team communication, signals, debris removal, international warning signals.

<b>Replacement information</b>	This unit standard was replaced by skill standard 40699.
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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	27 August 2001	31 December 2027
Revision	2	14 April 2005	31 December 2027
Review	3	24 July 2025	31 December 2027

<b>Consent and Moderation Requirements (CMR) reference</b>	0039
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.