

1XXXXX Provide initial response at flood incidents

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| Kaupae Level | 3 |
| Whiwhinga Credit | 3 |
| Whāinga Purpose | <p>This skill standard is for people who are required to provide initial response to flooding incidents.</p> <p>People credited with this skill standard are able to: describe flood incident management in New Zealand, operate portable pumps in proximity to flooding; and instal flood control methods.</p> |
| Whakaakoranga me mātua oti Pre-requisites | Unit standard 22298 or Skill standard ##### Protect personal safety and the safety of others at flood incidents. |

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

| Hua o te ako Learning outcomes | Paearu aromatawai Assessment criteria |
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| 1. Describe flood incident management in the New Zealand context. | a. Describe how flooding is managed across the 4Rs of emergency management. |
| | b. Describe preventative, clearing and monitoring techniques relevant to drains. |
| | c. Identify response tactics in accordance with the flood incident. |
| | d. Describe the advantages and disadvantages of flood control methods for flood types. |
| | e. Outline actions, and their rationale, for two specific flood recovery operations. |
| 2. Operate portable pumps in proximity to flooding. | a. Select pump and set-up location based on situational requirements. |
| | b. Set-up pump in accordance with the situation requirements, manufacturer's instructions, and safety requirements. |
| | c. Operate pump to transfer water from one location to another in accordance with the situation requirements, manufacturer's instructions, and safety requirements. |
| | d. Describe solutions for common pump problems. |

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| 3. Install one type of flood control method. | a. Select method of flood control in relation to resource requirements, and in accordance with the flood situation, safety requirements, and industry best practice. |
| | b. Install flood control measures in proximity to flood water based on the projected incident development and site conditions. |

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

Assessment specifications:

For assessment of learning outcome 3

- Methods of flood control include sandbags, polymer filled bags, inflatable tube barriers, rigid barriers.
- Selection of flood control methods include consideration of cost, terrain, base materials, clear up costs, achievable height, personnel, equipment, materials, PPE.
- Installation of flood control measures include demonstration of installing sandbags, polymer filled bags, inflatable tube barriers, rigid barriers.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Flood incident management in New Zealand.

- 4Rs of emergency management.
- Roles and responsibilities of key agencies.
- Flood warning systems and their use
- Building codes and regulations relating to floods.
- Drain cleaning techniques: cages, sleeves, removal of debris.
- Response tactics: pre-plan, training, activation levels, resource identification.
- Flood plans, evacuations, clean-up.

Portable pumps.

- Pump selection: size of pump allows movement to site with given personnel.
- Pump set-up location selection: clear of combustible material, flat to slight slope, anchorage to secure pump to if required, discharge of floodwater does not cause additional damage.
- Trouble shooting for common problems with pump operation.

Methods of flood control.

- Overview of flood control methods: advantages and disadvantages of each.
- Sandbags, polymer filled bags, inflatable tube barriers, rigid barriers.
- Selection of flood control methods include consideration of cost, terrain, base materials, clear up costs, achievable height, personnel, equipment, materials, PPE.
- Situational suitability of methods based on flood type and site conditions.
- Installation of flood control measures include demonstration of installing sandbags, polymer filled bags, inflatable tube barriers, rigid barriers.

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>
- Health and Safety at Work Act 2015.
<https://www.legislation.govt.nz/act/public/2015/0070/latest/DLM5976660.html>
- River Safety Mountain Safety Council. *River safety: How to cross a river safely?*
<https://www.mountainsafety.org.nz/learn/skills/river-safety>
- Survival Swimming Water Safety New Zealand. *Survival swimming*.
<https://www.watersafetynz.org/resources/survival-swimming>

Pārongo Whakaū Kounga | Quality assurance information

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

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

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