

<b>Title</b>	<b>Deal with mine fires using extinguishing agents</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe the usage of different forms of mine fire-fighting extinguishing agents and methods; fight the fire in an actual or simulated situation; and decommission, check and re-commission fire-fighting equipment, and facilitate debriefing.
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<b>Classification</b>	Extractive Industries > Extractive Industries Management
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<b>Available grade</b>	Achieved
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### Guidance Information

- Performance of the outcomes of this unit standard must comply with the following:  
Health and Safety at Work Act 2015 (HSW);  
Health and Safety at Work (General Risk and Workplace Management) Regulations 2016;  
Health and Safety at Work (Worker Engagement, Participation, and Representation) Regulations 2016;  
Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016;  
approved codes of practice issued pursuant to the HSW Act;  
WorkSafe New Zealand Act 2013.
- Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- Range  
Depending on the candidate's work context, mine fires and extinguishing agents relevant either to a surface extraction site or to an underground extraction site.

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### Outcomes and performance criteria

#### Outcome 1

Describe the usage of different forms of mine fire-fighting extinguishing agents and methods.

**Performance criteria**

1.1 Mine fire-fighting extinguishing agents are described in terms of their varied uses.

Range may include, as relevant to the candidate's work context – dry powder, carbon dioxide, low and high expansion foam, water, stone dust.

1.2 The types of fires that can be fought with chemicals, gases, low and high expansion foams, water, and sealing off, are described in terms of the effectiveness and associated hazards of each form of extinguishing agent or method and the possibility of re-ignition.

Range includes but is not limited to – large mine fires, confined spaces, machinery, liquid fuels; electrical equipment.

**Outcome 2**

Fight the fire in an actual or simulated situation.

**Performance criteria**

2.1 Plan of attacking the fire is decided upon and communicated within the fire-fighting team in terms of the spread, type, and place of the fire.

2.2 Safety clothing and personal equipment is checked for correct fit and suitability to the situation in accordance with manufacturer's specifications.

2.3 Fire-fighting equipment is checked to be fit for purpose and functioning properly.

2.4 Attack plan is implemented and altered, where required, in accordance with fire movement and ferocity, and dynamic risk assessment.

2.5 Fire is extinguished and potential areas of re-ignition kept under control in accordance with the plan of attack.

2.6 Communication is maintained in accordance with the plan of attack.

**Outcome 3**

Decommission, check and re-commission fire-fighting equipment, and facilitate debriefing.

**Performance criteria**

3.1 Fire-fighting equipment is decommissioned, checked, and left in a ready-to-use condition.

3.2 Personal safety equipment is decommissioned, checked, and left in a ready-to-use condition.

- 3.3 Fire fighters are debriefed in a formal, documented debriefing process in accordance with team procedures.

<b>Planned review date</b>	31 December 2022
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 July 1999	31 December 2014
Review	2	24 November 2005	31 December 2014
Rollover and Revision	3	16 July 2010	31 December 2017
Review	4	21 May 2015	N/A
Rollover and Revision	5	25 January 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0114
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Comments on this unit standard

Please contact MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.