

**Field      Engineering and Technology****Review of *Extractive Industries and Underground Metalliferous Mining* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Extractive Industries	Extractive Industries Management	17694, 20333, 20334, 21152
	Surface Extraction	8907, 8918, 17700, 17697, 21632, 21633
	Underground Extraction	8920, 8921
Metalliferous Mining	Underground Metalliferous Mining	26765

NZ Motor Industry Training Organisation (Incorporated) (MITO) has completed the review of the unit standards listed above.

**Date new versions published**

**August 2014**

**Planned review date**

**December 2017**

**Summary**

MITO's Blasting Working Group, which includes representation from industry and Tertiary Education Organisations, considered the content of these unit standards in conjunction with the development of the new New Zealand qualification for blasting.

The review of these standards has re-aligned the level and credit values to ensure they reflect the NZQA level descriptors, and the time required for learning, practice, and assessment to take place; and to ensure they accord rationally with the Graduate Profile Outcomes in the New Zealand qualifications.

Standards 21632 and 21633 were designated expiring in March 2011 and expired on 31 December 2012. They were reinstated and their expiry date was extended to 31 December 2017 in October 2013. The SSB has now decided to reverse the standards' status from expiring to current. The standards have been identified for inclusion in industry training programmes developed to meet the outcomes of the new qualification.

Standard 8920 was also designated expiring in March 2011 and expired on 31 December 2012. It was reinstated and the expiry date extended to 31 December 2017 in October 2013. The SSB has decided to reverse the standard's status from expiring to current. It was also decided that it should be reinstated in preference to standard 26765 as it more accurately reflects the skills and knowledge required by industry in New Zealand. As a result standard 26765, which has never been used, has been designated expiring.

The Working Group has endorsed the changes made to the standards, and the proposed levels and credits were included within the industry-wide qualification consultation that took place in December 2013.

## Main changes

- The credits for standards 8920, 8921, and 17697 were increased to more accurately reflect the time required for learning, practice, and assessment to take place.
- The titles of standards 17697, 20333, 20334, and 21152 were amended to allow for use in the range of blasting contexts to be covered by the new New Zealand qualification.
- The status of standard 8920 was changed to current and it was reclassified from the *Underground Extraction* domain in the *Extractive Industries* subfield, to the *Underground Metalliferous Mining* domain in the *Metalliferous Mining* subfield.
- The status of standards 21632 and 21633 were changed to current, and their entry information updated.
- Standard 26765 was designated expiring and will not be replaced.
- Explanatory note references and hyperlinks were updated for currency.
- Minor amendments to some purpose statements, explanatory notes, outcomes, evidence requirements, and range statements were made to ensure clarity for users.

The last date for assessment of superseded versions of these standards is 31 December 2017. Results will not be accepted where the assessment date is after the last date for assessment of the superseded version of the standard.

## The category D unit standard will expire at the end of December 2015

### Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification	Level	Nature of consent	Classification or ID	Level
Subfield	Extractive Industries	6+	Standard	8920	4
Domain	Underground Extraction	6+	Standard	8920	4

### Impact on registered qualifications

Key to type of impact	
<b>Affected</b>	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
<b>Not materially affected</b>	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following MITO qualifications are impacted by the outcome of this Revision. These qualifications are included in the Blasting and Extractives sector reviews of qualifications that are currently underway. The standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	Classification or ID
0391	National Certificate in Extractive Industries (Shotfiring) with strands in Construction Blasting, Surface Extraction, Tunnelling/Underground Metalliferous Extraction, and Underground Coal Extraction	<b>8918, 8920, 8921, 17697, 20333, 20334, 21152</b>
802	National Certificate in Extractive Industries (Land Operations Using Explosives) (Level 3)	20333, 21152
1522	National Certificate in Extractive Industries (Operations) (Level 4) with strands in Drilling Underground, Metalliferous Processing, Processing Plant, Surface Extraction, and Underground Extraction	<b>8920</b>
1535	National Certificate in Extractive Industries (Mining Administration B Grade Tunnel Manager) (Level 5) with an optional strand in Coal Mine Deputy	21152
1536	National Certificate in Extractive Industries (Mining Administration Surface Extraction B Grade) (Level 5)	21152

### Detailed list of unit standards – classification, title, level, and credits

Key to review category	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

All changes are in **bold**.

#### Engineering and Technology > Extractive Industries > Extractive Industries Management

ID	Title	Level	Credit	Review Category
17694	Demonstrate knowledge of explosives and their properties	3	10	B
20333	Describe the legal and operational requirements for an approved handler for Class 1 substances in extractive industries <b>Describe the legal and operational requirements for an approved handler for Class 1 substances</b>	4	10	B
20334	Describe the legal and operational requirements for a test certifier of Class 1 substances in extractive industries <b>Describe the legal and operational requirements for a test certifier of Class 1 substances</b>	4	15	B
21152	Demonstrate and apply knowledge of storing explosives for use in extractive industries <b>Demonstrate and apply knowledge of storing explosives for use</b>	4	10	B

## Engineering and Technology &gt; Extractive Industries &gt; Underground Extraction

ID	Title	Level	Credit	Review Category
8921	Design blasting layouts and carry out shottfiring in an underground coal mine	4	20 <b>30</b>	B

## Engineering and Technology &gt; Extractive Industries &gt; Surface Extraction

ID	Title	Level	Credit	Review Category
8907	Design blasting layouts within surface operation production areas	4	20	B
8918	Carry out shottfiring operations at a surface extraction site	3	12	B
17700	Design blasting layouts and carry out blasting operations for land work	4	28	B
17697	Design blasting layouts and carry out blasting operations for construction sites <b>Design blasting layouts and carry out blasting operations for construction and infrastructure sites</b>	4	30 <b>40</b>	B
21632	Demonstrate knowledge of and apply techniques for blasting for pipeline perforations	4	10	B
21633	Demonstrate knowledge of and apply blasting layouts for pile and pipe cutting blasting	4	10	B

## Engineering and Technology &gt; Metalliferous Mining &gt; Underground Metalliferous Mining

ID	Title	Level	Credit	Review Category
26765	Conduct underground development shottfiring in an underground metalliferous mine	3	10	D

## Engineering and Technology &gt; Extractive Industries

**Engineering and Technology > Metalliferous Mining**

ID	Domain	Title	Level	Credit	Review Category
8920	Underground Extraction  <b>Underground Metalliferous Mining</b>	Design blasting layouts and carry out shottfiring in an underground metalliferous mine	4	20 <b>30</b>	B