

Field Engineering and Technology**Review of *Extractive Industries* unit standards**

Subfield	Domain	ID
Extractive Industries	Extractive Industries Management	17694, 20333, 20334, 21152
	Surface Extraction	8907, 8918, 17697, 17699, 17700, 21630-21633
	Underground Extraction	8920, 8921

The NZ Extractive Industries Training Organisation (EXITO) has completed the review of the unit standards listed above.

Date new versions published

March 2011

Planned review date

December 2012

Summary

These unit standards had all either passed, or were coming up to, their planned review date. They were reviewed together as they all cover skills and knowledge related to blasting.

The Extractives Industry Advisory Group considered input from industry networks, assessors, moderators, and other stakeholders. All stakeholders were given the opportunity to comment on proposed amendments.

Main changes

- Changes were made to the titles of unit standards 20333, 20334, and 21152.
- Level and credit value were increased in unit standard 17694.
- Level was increased in unit standard 17700.
- Changes were made to the explanatory notes and evidence requirements of unit standards 8920 and 8921 to ensure consistency with current industry best practice.
- Changes were made to the explanatory notes, evidence requirements, and ranges of unit standards 8907, 8918, 17694, and 17699 to ensure consistency with current industry best practice.
- Changes were made to the purpose, explanatory notes, outcomes, evidence requirements, and ranges of unit standards 17697, 17700, 20333, 20334, and 21152 to ensure consistency with current industry best practice.
- Unit standards 8920, and 21630-21633 were designated expiring and will not be replaced.

Category D unit standards will expire at the end of December 2012

Impact on registered qualifications

Key to type of impact	
Affected	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
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following EXITO qualifications are impacted by the outcome of this review and will be updated when they are reviewed in 2011 [Refs: 0391, 0802, and 1522] and 2015 [Refs: 1535 and 1536]. The standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	ID
0391	National Certificate in Extractive Industries (Shotfiring) with strands in Construction Blasting, Surface Extraction, Tunnelling/Underground Metalliferous Extraction, and Underground Coal Extraction	8920, 17694, 20333, 20334, 21152, 21632, 21633
0802	National Certificate in Extractive Industries (Land Operations Using Explosives) (Level 3)	17694, 17700, 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	8920
1535	National Certificate in Extractive Industries (Mining Administration B Grade Tunnel Manager) (Level 5) with an optional strand in Coal Mine Deputy	17694, 21152
1536	National Certificate in Extractive Industries (Mining Administration Surface Extraction B Grade) (Level 5)	17694, 21152

The following table identifies a qualification developed by another SSB that is affected by the outcome of this review. The SSB has been advised that the qualification requires revision.

Ref	Qualification Title	ID	SSB Name
0443	National Certificate in Snowsport (Patrol) (Level 4)	17694	Skills Active Aotearoa Limited

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

All changes are in **bold**.

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

Engineering and Technology > Extractive Industries > Extractive Industries Management

ID	Title	Level	Credit	Review Category
17694	Demonstrate knowledge of explosives and their properties	2 3	2 10	B
20333	Outline the legal and operational requirements of mining and blasting for an approved handler Describe the legal and operational requirements for an approved handler for Class 1 substances in extractive industries	4	10	B
20334	Explain the legal and operational requirements of mining and blasting for a test certifier Describe the legal and operational requirements for a test certifier of Class 1 substances in extractive industries	4	15	B
21152	Demonstrate knowledge of storing explosives for use in extractive industries Demonstrate and apply knowledge of storing explosives for use in extractive industries	4	10	B

Engineering and Technology > Extractive Industries > Surface Extraction

ID	Title	Level	Credit	Review Category
8907	Design blasting layouts within surface operation production areas	4	20	B
8918	Carry out shotfiring operations at a surface extraction site	3	12	B
17697	Design blasting layouts and carry out blasting operations for construction sites	4	30	B
17699	Describe procedures, plan layouts, assemble, place and fire shots for snow control	4	20	B
17700	Design blasting layouts and carry out blasting operations for land work	3 4	28	B
21630	Demonstrate knowledge of and apply blasting layouts for underwater blasting	4	10	D
21631	Demonstrate knowledge of and apply blasting layouts for blasting hot surfaces	4	10	D
21632	Demonstrate knowledge of and apply techniques for blasting for pipeline perforations	4	10	D
21633	Demonstrate knowledge of and apply blasting layouts for pile and pipe cutting blasting	4	10	D

Engineering and Technology > Extractive Industries > Underground Extraction

ID	Title	Level	Credit	Review Category
8920	Design blasting layouts and carry out shotfiring in an underground metalliferous mine	4	20	D
8921	Design blasting layouts and carry out shotfiring in an underground coal mine	4	20	B