

## FIELD                      ENGINEERING AND TECHNOLOGY

### Review of *Extractive Industries* qualifications

- National Certificate in Extractive Industries (Introductory Skills) with strands in Surface Extraction and Underground Extraction [Ref: 0247]
- National Certificate in Extractive Industries (Operations) with strands in Surface Extraction, and Underground Extraction [Ref: 0248]
- National Certificate in Extractive Industries (Supervision) with strands in Surface Extraction and Underground Extraction [Ref: 0249]
- National Certificate in Extractive Industries (Shotfiring) with strands in Surface Extraction, Underground Metalliferous Extraction, Underground Coal Extraction, and Tunnelling [Ref: 0391]
- National Certificate in Extractive Industries (Mineral Processing – Lime Mill Processing) [Ref: 0474]
- National Certificate in Extractive Industries (Land Operations Using Explosives) (Level 2) [Ref: 0802]
- National Certificate in Extractive Industries (Construction Blasting) (Level 4) [Ref: 0803]
- National Certificate in Extractive Industries (Mining Electrical Engineering Non-hazardous Areas) (Level 5) [Ref: 0804]
- National Diploma in Extractive Industries (Mining Electrical Engineering Hazardous Areas) (Level 5) [Ref: 0805]
- National Diploma in Extractive Industries (Management) with strands in Surface Extraction, Underground Coal Extraction, and Underground Metalliferous Extraction/Tunnelling [Ref: 0806]

The NZ Extractive Industries Training Organisation has completed the review of the qualifications listed above.

**Date new versions published**

**September 2007**

The next qualification review is planned to take place during 2011.

### Summary of review and consultation process

This review took place in response to feedback from stakeholders; to meet ongoing industry/sector demand for the qualifications; to update the qualifications in view of recent standard reviews; and to make them fit for purpose in today's industry environment. Consultation took place over the last three years on a regular basis through meetings, teleconferences, email, and telephone.

## Main changes resulting from the review

National Certificate in Extractive Industries (Introductory Skills) with strands in Surface Extraction and Underground Extraction [Ref: 0247]

**National Certificate in Extractive Industries (Core Skills) with strands in Surface Extraction, and Underground Extraction [Ref: 0247]**

Review category	<b>B</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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Changes to structure and content

- titles, levels, and credits of reviewed standards in this qualification have been updated
- Core Elective 3 has been deleted
- standard 6400 has been added to the Core Compulsory and 2401, 2977, 2989, 3483, 3490, 9677, and 21912 have been added to Core Elective 1
- standards 17309-17311, 17314, and 17316 have been removed from the Surface Extraction Strand Elective and the Underground Extraction Strand Elective
- standard 8919 has been removed from the Underground Extraction Strand Compulsory
- the minimum credit totals have changed from 63-69 credits to 55-64 credits.

### Transition

People currently working towards version 3 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

The last date for assessments to take place for version 3 is 31 December 2009.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
1179	15851

National Certificate in Extractive Industries (Operations) with strands in Surface Extraction, and Underground Extraction [Ref: 0248]

**National Certificate in Extractive Industries (Operations) with strands in Lime Milling, Surface Extraction, and Underground Extraction [Ref: 0248]**

Review category	<b>B</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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Changes to structure and content

- the structure of the qualification has been modified to include an additional strand, Lime Milling. The new strand will effectively replace the National Certificate in Extractive Industries Lime Milling [Ref: 0474], and as a result that qualification has been designated as expiring
- titles, levels, and credits of reviewed standards in this qualification have been updated
- the Core Compulsory section has been expanded and emphasises health and safety
- standards 8922, 16687, 17602, 17983, 23648 have been added to the Core Compulsory section and standards 2395, 2396, 8074, 8085, 16701, 16703, and 17574 to the Core Elective sections

- standards 1178, 9674, 9707, and 15851 have been removed from Core Elective sections and standards 7147 and 8919 removed from the Underground Extraction strand
- standards 1277 and 9681 have been moved from Core Elective 2 to the Core Compulsory
- standard 17695 has been moved from the Core Compulsory to Elective 1
- changes in minimum credits for the qualification have changed from 158-161 credits to 133-142 credits.

## Transition

People currently working towards version 5 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

The last date for assessment to take place for version 5 is 31 December 2009.

People currently working towards the National Certificate in Extractive Industries (Mineral Processing – Lime Mill Processing) [Ref: 0474] may either complete the requirements for that qualification or transfer their results to this qualification. The last date for assessment to take place for National Certificate in Extractive Industries (Mineral Processing – Lime Mill Processing) [Ref: 0474] is 31 December 2009.

National Certificate in Extractive Industries (Supervision) with strands in Surface Extraction and Underground Extraction [Ref: 0249]

### **National Certificate in Extractive Industries (Supervision) with strands in Surface Extraction, and Underground Extraction [Ref: 0249]**

Review category	<b>B</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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#### Changes to structure and content

- titles, levels, and credits of reviewed standards have been updated
- Core Elective 4 has been deleted from the Core Elective section
- the qualification structure has been simplified with the removal of the 'sets'
- standards 7143, 7144, 16686, 16687, 17691, 17602, and 20732 have been added to the Core Compulsory section
- standard 497 has been removed from the Core Compulsory, and standards 1178, 3492, 3789, 4213, and 8902 removed from the elective sections, standards 8894, 8895 removed from the Surface Extractive strand, and standards 7155 and 7156 removed from the Underground Extractive strand
- 9681 has been moved from elective one to the Core Compulsory
- standards 7145, 7146, and 7147 have been moved from the Underground Extractive strand to the Core Compulsory, 8899 has been moved from the Surface Extractive strand elective to the Core Elective 1
- 9674, 9675 and 9676 have been replaced by 21335 and 21336
- domain names in the Core Elective section have been updated to reflect changes to the classifications system
- minimum qualification credit totals have changed from 287-325 credits to 186-188 credits.

## Transition

People currently working towards version 5 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

The last date for assessment to take place for version 5 is 31 December 2009.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
9674, 9675, 9676	21335, 21336
17497	21335
17498	21336

National Certificate in Extractive Industries (Shotfiring) with strands in Surface Extraction, Underground Metalliferous Extraction, Underground Coal Extraction, and Tunnelling [Ref: 0391]

**National Certificate in Extractive Industries (Shotfiring) with strands in Construction Blasting, Surface Extraction, Tunnelling/Underground Metalliferous Extraction, and Underground Coal Extraction [Ref: 0391]**

Review category	<b>B</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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### Changes to structure and content

- the structure of the qualification has been modified to include an additional strand, Construction Blasting. The new strand will effectively replace the National Certificate in Extractive Industries (Construction Blasting) (Level 4) [Ref: 0803], and as a result that qualification has been designated as expiring
- titles, levels, and credits of reviewed standards have been updated
- prerequisite standard 7146 for standards 21281, 21814, and 21817 has been added
- standards 7152, 7155, 8890, and 12632 have been replaced with standards 21814, 21817, 21152, and 21281 respectively
- standards 17694 and 20333 have been added to the Core Compulsory, 8915, 17696 and 20334 to the Surface Extraction strand, and 7146 to the Tunnelling/Underground Metalliferous Extraction Strand Compulsory and the Underground Coal Extraction Strand Compulsory
- the Tunnelling strand and the Underground Metalliferous Extraction Strand have been combined to make one strand Tunnelling/Underground Metalliferous Extraction strand
- minimum qualification credit totals have changed from 40-50 credits to 67-78 credits.

## Transition

People currently working towards version 3 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

The last date for assessment to take place for version 3 is 31 December 2009.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
7152	21814
7155	21817
8890	21152
12632	21281
17698	21632, 21633

National Certificate in Extractive Industries (Mineral Processing - Lime Mill Processing)  
[Ref: 0474]

Review category	<b>D</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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Changes to structure and content

- The content has been incorporated in the Lime Milling strand of the National Certificate in Extractive Industries (Operations) with strands in Surface Extraction, and Underground Extraction [Ref: 0248] and this qualification has therefore been designated as expiring.

### Transition

People currently working towards version 3 of this qualification may either complete the requirements for that version or transfer their results to the Lime Milling strand of the National Certificate in Extractive Industries (Operations) with strands in Surface Extraction, and Underground Extraction [Ref: 0248].

The last date for assessment of this qualification is 31 December 2009.

National Certificate in Extractive Industries (Land Operations Using Explosives) (Level 2)  
[Ref: 0802]

**National Certificate in Extractive Industries (Land Operations Using Explosives)  
(Level 3) [Ref: 0802]**

Review category	<b>B</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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Changes to structure and content

- titles, levels, and credits of reviewed standards have been updated
- an Elective section has been added
- standard 8890 has been replaced with standard 21152 in the Compulsory section
- standard 20333 has been added to the Compulsory section
- minimum qualification credit totals have changed from 40-50 credits to 55 credits
- Level of qualification has increased to Level 3.

## Transition

People currently working towards version 1 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

The last date for assessment to take place for version 1 is 31 December 2009.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
8890	21152

### National Certificate in Extractive Industries (Construction Blasting) (Level 4) [Ref: 803]

Review category	<b>D</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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#### Changes to structure and content

- The content has been incorporated in the Construction Blasting strand of the National Certificate in Extractive Industries (Shotfiring) with strands in Construction Blasting, Surface Extraction, Tunnelling/Underground Metalliferous Extraction, and Underground Coal Extraction [Ref: 0391] and this qualification has therefore been designated as expiring.

## Transition

People currently working towards version 1 of this qualification may either complete the requirements for that version or transfer their results to the Construction Blasting strand of the National Certificate in Extractive Industries (Shotfiring) with strands in Construction Blasting, Surface Extraction, Tunnelling/Underground Metalliferous Extraction, and Underground Coal Extraction [Ref: 0391].

Standard 8890 in the compulsory section of this qualification has expired. Candidates who have not already gained credit for standard 8890 will be unable to complete this qualification and should transfer to the Construction Blasting strand of the National Certificate in Extractive Industries (Shotfiring) with strands in Construction Blasting, Surface Extraction, Tunnelling/Underground Metalliferous Extraction, and Underground Coal Extraction [Ref: 0391].

The last date for assessment to take place for this qualification is 31 December 2009.

### National Certificate in Extractive Industries (Mining Electrical Engineering Non-hazardous Areas) (Level 5) [Ref: 0804]

#### **National Certificate in Extractive Industries (Mining Electrical Engineering Non-hazardous Areas) (Level 5) with an optional strand in Underground Extraction [Ref: 0804]**

Review category	<b>B</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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### Changes to structure and content

- the structure of the qualification has been changed with the addition of an optional strand in Underground Extraction, and three electives
- titles, levels, and credits of reviewed standards have been updated
- standard 17696 has been added to Elective 3
- standards 6979, 6980, 7145 and 10413 have been removed from the Compulsory section
- standards 7148 and 12632 have been replaced with standards 21279 and 21281
- minimum qualification credit total has changed from 108 credits to 86 credits.

### Transition

People currently working towards version 1 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

The last date for assessment to take place for version 1 is 31 December 2009.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
7148	21279
12632	21281

National Diploma in Extractive Industries (Mining Electrical Engineering Hazardous Areas) (Level 5) [Ref: 0805]

**National Diploma in Extractive Industries (Mining Electrical Engineering Hazardous Areas) (Level 5) with an optional strand in Underground Extraction [Ref: 0805]**

Review category	<b>B</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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### Changes to structure and content

- the structure of the qualification has been changed with the addition of an optional strand in Underground Extraction, and three electives
- titles, levels, and credits of reviewed standards have been updated
- standards 7148 and 12632 have been replaced with standards 21279 and 21281
- standards 17061-17066, and 17070 have been removed from the Compulsory section, and, 7169 and 17072 have been removed from the optional section
- standard 1178 has been added to the Compulsory section and standard 17696 has been added to Elective 3
- minimum qualification credit total has changed from 172 credits to 159 credits.

### Transition

People currently working towards version 1 or 2 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

The last date for assessment to take place for versions 1 and 2 is 31 December 2009.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
12632	21281
7148	21279

National Diploma in Extractive Industries (Management) with strands in Surface Extraction, Underground Coal Extraction, and Underground Metalliferous Extraction/ Tunnelling [Ref: 0806]

**National Diploma in Extractive Industries (Management) with strands in Surface Extraction, and Underground Extraction [Ref: 0806]**

Review category	<b>B</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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#### Changes to structure and content

- the strands Underground Coal Extraction and Underground Metalliferous Extraction/Tunnelling have been combined to make one generic strand – Underground Extraction
- Core Elective 3 has been deleted
- titles, levels, and credits of reviewed standards have been updated
- standards 8910, 11634, 15667, 15671, 17497, and 17498 have been replaced with standards 21154, 19796, 21157, 22056, 21335, and 21336 respectively
- standards 9674, 9675 and 9676 have been replaced with standards 21335 and 21336
- standards 7452, 15661, and 15671 have been removed from the Core Compulsory, and standard 11634 has been removed from Core Elective 1
- standards 15658, 15663, 15665, 15667 have been removed from the Surface Extraction strand, standards 7169, 8921, 15662, 15666, 15668, 15659, 17744, have been removed from the Underground Coal Extraction strand and standards 7169, 8920, 15660, 15662, 15666, 15670, 17744, have been removed from the Underground Metalliferous Extraction/Tunnelling strand
- standard 16695 has been added to the Core Compulsory, standard 7452, added to Core Elective 1, and standards 17693, 17695, 17743, 23649, and 23650 have been added to Core Elective 2
- qualification credit totals have changed from a minimum of 246 or 296 credits dependent on strand, to 301 credits.

#### Transition

People currently working towards version 1 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

The last date for assessment to take place for version 1 is 31 December 2010.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

<b>Credit for</b>	<b>Exempt from</b>
8910	21154
9674, 9675, 9676	21335, 21336
11634	19796
15667	21157
15671	22056
17497	21335
17498	21336

It is not intended that anyone be disadvantaged by this review, and the above arrangements have been designed for a smooth transition. However, anyone who feels they have been disadvantaged may appeal to NZ Extractives Industry Training Organisation at the address below.

NZ Extractive Industries Training Organisation  
PO Box 2623  
CHRISTCHURCH

Telephone 03 964 4710  
Email [info@exito.org.nz](mailto:info@exito.org.nz)

### Key to Qualification Review Categories

<b>Category A</b> The qualification is published as a new version with the same NQF ID	Changes are made to SSB name, contact details or purpose statement
	No change is made to title, rules or components of the qualification
	No transition arrangements are required
<b>Category B</b> The qualification is published as a new version with the same NQF ID	Changes are made to title, rules or components
	The new version of the qualification recognises a similar skill set to that recognised by the previous version
	The SSB is confident that people awarded the new or previous version are comparable in terms of competence
	Transition arrangements are required if candidates must gain additional/different credits for the new version
<b>Category C</b> A new (replacement) qualification is published with new NQF ID	Significant changes are made to the qualification in terms of components, structure, type or level
	The SSB views people with the replacement qualification as being significantly different in terms of competence from those with the replaced qualification
	Transition arrangements are required
	Transition may be limited to phase-out dates
<b>Category D</b> Qualification will expire. There is no replacement qualification	Qualification is no longer required by industry
	The qualification is designated as expiring and a last date for meeting the qualification requirements is set