

## **FIELD                      ENGINEERING AND TECHNOLOGY**

### **Review of *Extractive Industries* qualifications**

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

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

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

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

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

### **Replacement qualifications**

National Certificate in Extractive Industries (Operations) (Level 3) with strands in Coal Plant, Drilling Surface, Drilling Underground, Maintenance Operations, Metalliferous Processing, Mobile Plant Surface, Processing Plant, Surface Extraction, Underground Extraction, and Water Treatment [Ref: 1521]

National Certificate in Extractive Industries (Lime Milling) (Level 4) [Ref: 1525]

### **New qualifications**

National Certificate in Extractive Industries (Operations) (Level 4) with strands in Drilling Underground, Metalliferous Processing, Processing Plant, Surface Extraction, and Underground Extraction [Ref: 1522]

National Certificate in Extractive Industries (Supervision) (Level 5) with strands in Surface Extraction, and Underground Extraction [Ref: 1523]

National Diploma in Extractive Industries (Site Management) (Level 5) with strands in Surface Extraction, and Underground Extraction [Ref: 1524]

National Certificate in Extractive Industries (Environmental Technician) (Level 3) [Ref: 1528]

National Certificate in Extractive Industries (Sand) (Level 3) [Ref: 1526]

National Certificate in Extractive Industries (Sand) (Level 4) [Ref: 1527]

National Certificate in Extractive Industries (Weighbridge Operations) (Level 3) [Ref: 1529]

### **Date new versions published**

**December 2009**

The next qualification review is planned to take place during 2014.

### **Summary of review and consultation process**

This planned review took in to account feedback from stakeholders; ongoing industry/sector demand for the qualifications; the need to update the qualifications in view of recent standard reviews; and the need to make them fit for purpose in today's industry environments.

In addition, a major focus of the review was to provide a clear qualification pathway for industry training that reflects the career progressions of workers. This led to the development of eight new qualifications and one replacement qualification.

### **Main changes resulting from the review**

The National Certificate in Extractive Industries (Operations) with strands in Lime Milling, Surface Extraction, and Underground Extraction [Ref: 0248] has been replaced by the National Certificate in Extractive Industries (Operations) (Level 3) with strands in Coal Plant, Drilling Surface, Drilling Underground, Maintenance Operations, Metalliferous Processing, Mobile Plant Surface, Processing Plant, Surface Extraction, Underground Extraction, and Water Treatment [Ref: 1521] and the National Certificate in Extractive Industries (Lime Milling) (Level 4) [Ref: 1525].

New qualifications have been registered to allow further qualification options for trainees.

Reverse transition arrangements have been added for version 1 of the National Diploma in Extractive Industries (Management) with strands in Surface Extraction, and Underground Extraction [Ref: 0806] to ensure that the version is achievable until 2010.

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

**National Certificate in Extractive Industries (Introductory Skills) (Level 2) 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

- Title has been changed to amend the descriptor (Introductory Skills) and to include the qualification level.
- The level for the qualification has changed from 2 or 3 (depending on strand), to 2.
- The credits for the qualification have decreased from 55-64 to 44 or 46 depending on strand.
- Standards 8922 and 23648 have been added to the Core Compulsory.
- Standard 2401 has been moved from Core Elective 1 to the Core Compulsory.
- Standards 1178, 2977, 2989, 3483, 3490, 9677, 15851 and 21912 have been removed from Core Elective 1.
- Standard 1277 has been moved from Core Elective 1 to Core Elective 2.
- Standard 9680 has been added to Core Elective 2.
- The credit requirement for the Surface Extraction Strand Elective has been reduced from 31 to 14.
- The Surface Metalliferous Mining domain has been added to the Surface Extraction Strand Elective.
- The credit requirement for the Underground Extraction Strand Elective has been reduced from 38 to 14.
- The Underground Metalliferous Mining domain has been added to the Underground Extraction Strand Elective.
- The Extractive Industries Management domain in the Strand Elective sets has been removed.
- Titles, levels and credits of reviewed standards have been updated.

People currently working towards version 4 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 people to complete version 4 is 31 December 2011.

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

*Replaced by*

**National Certificate in Extractive Industries (Operations) (Level 3) with strands in Coal Plant, Drilling Surface, Drilling Underground, Maintenance Operations, Metalliferous Processing, Mobile Plant Surface, Processing Plant, Surface Extraction, Underground Extraction, and Water Treatment [Ref: 1521]**

*and*

**National Certificate in Extractive Industries (Lime Milling) (Level 4) [Ref: 1525]**

Review category	<b>C</b>	See <a href="#">Key to Qualification Review Categories</a> at the end of report
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*National Certificate in Extractive Industries (Operations) (Level 3) with strands in Coal Plant, Drilling Surface, Drilling Underground, Maintenance Operations, Metalliferous Processing, Mobile Plant Surface, Processing Plant, Surface Extraction, Underground Extraction, and Water Treatment [Ref: 1521]*

There are substantial differences between the qualifications.

- The level for the qualification has changed to 3.
- The credits for the qualification have decreased from 127-136 in the replaced qualification to 49-90 depending on strand.
- Strands have been included in Coal Plant, Drilling Surface, Drilling Underground, Maintenance Operations, Metalliferous Processing, Mobile Plant Surface, Processing Plant, and Water Treatment.
- Standard 17695 has been moved from Core Elective 1 to the new Core Compulsory.
- Standards 497, 1277, 3271, 6400-6402, 8922, 9681, 17602, and 23648 have not been included in the replacement qualification.
- Standard 20732 from the Core Compulsory is designated expiring, and its replacement standard 25876 has been added to the new Core Elective 1.
- Standards 3789 and 18663 have been added to new Core Elective 1.
- Standards 2395, 2396, 8074, 8085, 16701, 16703, and 17574, and the Surface Extraction and Underground Extraction domains have been removed from the new Core Elective 1.
- Standard 17696 has been removed from the new Surface Extraction Strand Compulsory.
- Standards 8909 and 15664 have been added to the new Surface Extraction Strand Compulsory.
- The credit requirement for the new Surface Extraction Strand Elective has been reduced from 56 at Level 3, to 20 with at least 17 at Level 3.
- The listed domains in the new Surface Extraction Strand Elective have been removed and replaced with a list of standards.
- The Underground Extraction Strand Compulsory has been removed.
- The credit requirement for the new new Underground Extraction Strand Elective has been reduced from 60 at Level 3 to 35.
- The listed domains in the Underground Extraction Strand Elective have been removed and replaced with a list of standards.

- Titles, levels and credits of reviewed standards have been updated.

People currently working towards either the Surface Extraction or the Underground Extraction strand of the replaced qualification must complete its requirements. The last date for entry to programmes or courses for the replaced qualification is 31 January 2010. The last date for people to complete the replaced qualification is 31 December 2013.

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
8908	25881, 25882, 25883, 25884
20732	25876

#### *National Certificate in Extractive Industries (Lime Milling) [Ref: 1525]*

This qualification replaced the Lime Milling strand of versions 6 and 7 of the National Certificate in Extractive Industries (Operations) with strands in Lime Milling, Surface Extraction, and Underground Extraction [Ref: 0248].

People currently working towards Lime Milling strand in versions 6 or 7 of the National Certificate in Extractive Industries (Operations) [Ref: 0248] may either complete its requirements or transfer their results to version 1 of this qualification. The last date for entry to programmes or courses for the replaced qualification is 31 January 2010.

People currently working towards the National Certificate in Extractive Industries (Mineral Processing - Lime Mill Processing) [Ref: 0474] which was replaced by the Lime Milling strand in versions 6 and 7 of Ref: 0248 are advised that 31 December 2009 was the last date for its assessment. Those candidates may now either transfer to Ref: 0248 by 31 January 2010 or to this qualification.

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

#### **National Certificate in Extractive Industries (Supervision) (Level 4) 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

- The title has been amended to include the qualification level.
- The level of the qualification has decreased from 5 to 4.
- The credits for the qualification have decreased from 186-188 to 126.
- Standards 3491, 17695, and 21335 have been moved from Core Elective 1 to the Core Compulsory.
- Expiring standard 20732 has been replaced with standard 25876 in the Core Compulsory.
- Standards 18336 and 23396 have been added to the Core Compulsory.
- Standards 3271, 6400-6402, 7142, 7144, and 9681 have been removed from the Core Compulsory.

- The minimum credit requirement for Core Elective 1 has increased from 15 to 20.
- Standard 1277 has been removed from Core Elective 1.
- Standards 15665, 15666, 16690, 16695, 17743, 17744, 17992, 21154 and 23395 have been added to Core Elective 1.
- Core Elective 2 has been removed.
- Core Elective 3 has become Core Elective 2, and the credit requirement for that elective has changed from 5 credits at Level 3 or above, to 5 credits at Level 4 or above.
- The Surface Extraction Strand Compulsory has been removed.
- The credit requirement for the Surface Extraction Strand Elective has been reduced from 60 to 30.
- The listed domains in the Surface Extraction Strand Elective have been removed and replaced with a list of standards.
- The Underground Extraction Strand Compulsory has been removed.
- The credit requirement for the Underground Extraction Strand Elective has been reduced from 60 to 30.
- The listed domains in the Underground Extraction Strand Elective have been removed and replaced with a list of standards.
- Titles, levels and credits of reviewed standards have been updated.

People currently working towards version 6 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 people to complete version 6 is 31 December 2011.

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
20732	25876

### **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 credit value for the qualification has increased from 301 to 304.
- Standard 6400 has been removed from the Compulsory section.
- Standard 7450 has been removed from Elective 1.
- Standard 11627 has been replaced by standards 25940 and 25941 in the Compulsory section.

- Standard 7452 has been replaced by standard 25463 in Elective 1.
- Standard 21157 has been replaced by standard 25878 in Elective 2.
- Reverse transition arrangements were included for version 1 of the qualification.

People currently working towards versions 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 people to complete version 1 is 31 December 2010. The last date for people to complete version 2 is 31 December 2011.

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>
7452	25463
8910	21154
9674, 9675, 9676	21335, 21336
11634	19796
11627	25940, 25941
15661	25878
15671	22056
17497	21335
17498	21336
21157	25878

Version 1 was amended to include reverse transition arrangements to ensure that the version is achievable until December 2010.

Some of the standards in version 1 of this qualification expired in 2006, 2007, and 2008. Changes to the structure of the qualification when version 2 was placed on the NQF mean that candidates part way through programmes leading to version 1 could not transfer to version 2 of the qualification.

Programmes will therefore need to be adjusted to include the new replacement standards. The table below provides exemptions for standards that have replaced earlier standards. For the purposes of this qualification, people who have gained credit for the replacement standards are exempt from the requirement to gain credit for the replaced standards – see table below.

Credit for	Exempt from
21154	8910
19796	11634
22056	15671

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 the address below.

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PO Box 2623  
Christchurch 8140

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