

Mahi Haumaru Aotearoa

This safe work instrument is administered by WorkSafe New Zealand. For more information please see:

Website: http://www.worksafe.govt.nz

Contact phone: 0800 030 040

Contact address: PO Box 165 Wellington 6140 New Zealand

Health and Safety at Work (Mining Operations and Quarrying Operations—Prescribed Competency Requirements for Certificates of Competence) Safe Work Instrument 2023

This safe work instrument is made under section 227 of the Health and Safety at Work Act 2015 by the Minister for Workplace Relations and Safety, being satisfied that appropriate consultation has been carried out under section 227(3) of that Act.

Contents

		Page
1	Title	4
2	Commencement	4
	Part 1	
	Preliminary provisions	
3	Overview	4
4	Interpretation	4
	Part 2	
	Competency requirements for certificates of competence	
5	Applicants for issue of certificate of competence to meet prescribed competency	
	requirements	5
6	Certain applicants for renewal and lifetime quarry managers to meet additional	
	competency requirements	6
	Subpart A—Certificates of competence	
7	Site senior executive certificate of competence	6

1

8	First-class mine manager certificate of competence	6		
9	First-class coal mine manager certificate of competence	7		
10	A-grade opencast coal mine manager certificate of competence	8		
11	B-grade opencast coal mine manager certificate of competence	9		
12	A-grade metalliferous mine manager certificate of competence	10		
13	B-grade metalliferous mine manager certificate of competence	11		
14	A-grade quarry manager certificate of competence	11		
15	B-grade quarry manager certificate of competence	12		
16	Certificate of competence as manager of specified quarrying operation	13		
17	A-grade alluvial mine manager certificate of competence	15		
18	B-grade alluvial mine manager certificate of competence	16		
19	A-grade tunnel manager certificate of competence	17		
20	B-grade tunnel manager certificate of competence	17		
21	Coal mine underviewer certificate of competence	18		
22	Coal mine deputy certificate of competence	19		
23	Gas monitor certificate of competence	20		
24	Electrical superintendent certificate of competence	20		
25	Mechanical superintendent certificate of competence	22		
26	Mine surveyor certificate of competence	23		
27	Ventilation officer certificate of competence	23		
28	Winding engine driver certificate of competence	24		
	Subpart B—Additional competency requirements			
29	Additional competency requirements for work in operations using explosives	24		
30	Additional competency requirements for work underground	25		
31	Additional competency requirements for work in operations involving coal extraction	on		
		25		
32	Additional competency requirements for person holding a lifetime quarry manager			
	certificate of competence	25		
	Part 3			
	CPD requirements			
33	Applicant for renewal of certificate of competence to meet prescribed CPD			
	requirements	26		
34	CPD requirements apply to person holding a lifetime quarry manager certificate of			
	competence	26		
35	CPD requirements apply regardless of whether work carried out under certificate of	•		
	competence by the holder	26		
36	Prescribed CPD requirements	26		
	Claimable CPD activities and hours			

	Claimable CPD activities and hours
37	Requirements for claimable CPD activities

38 CPD hours

26 27

Schedule 1 Site senior executive unit standards Schedule 2 First-class mine manager unit standards Schedule 3 First-class coal mine manager unit standards Schedule 4 A-grade opencast coal mine manager unit standards Schedule 5 B-grade opencast coal mine manager unit standards Schedule 6 A-grade metalliferous mine manager unit standards Schedule 7 **B**-grade metalliferous mine manager unit standards Schedule 8 A-grade quarry manager unit standards **Schedule 9 B**-grade quarry manager unit standards Schedule 10 Manager of specified quarrying operation unit standards Schedule 11 A-grade alluvial mine manager unit standards Schedule 12 B-grade alluvial mine manager unit standards Schedule 13 A-grade tunnel manager unit standards Schedule 14 **B-grade tunnel manager unit standards** Schedule 15 **Coal mine underviewer unit standards** Schedule 16 Coal mine deputy unit standards Schedule 17 Gas monitor unit standards Schedule 18 **Electrical superintendent unit standards** Schedule 19 Mechanical superintendent unit standards Schedule 20 Mine surveyor unit standards

Schedule 21 Ventilation officer unit standards Schedule 22 Winding engine driver unit standards Schedule 23 CPD activities

Safe Work Instrument

1 Title

This is the Health and Safety at Work (Mining Operations and Quarrying Operations— Prescribed Competency Requirements for Certificates of Competence) Safe Work Instrument 2023.

2 Commencement

This safe work instrument comes into force on 18 July 2023.

Part 1 Preliminary provisions

3 Overview

In this safe work instrument:

- (a) Part 2 and Schedules 1 to 22 prescribe competency requirements for the issue, renewal, and continuation of certificates of competence, including the qualifications, experience, and skills required by applicants:
- (b) Part 3 and Schedule 23 prescribe CPD requirements for certificates of competence.

4 Interpretation

(1) In this safe work instrument, unless the context otherwise requires,—

Act means the Health and Safety at Work Act 2015

additional competency requirements means the additional competency requirements specified in subpart B of Part 2

area of learning means learning in the following areas:

- (a) operating and safety Systems:
- (b) legislation:
- (c) emergency management:
- (d) leadership

Board means the New Zealand Mining Board of Examiners established under clause 27 of Schedule 3 of the Act

certificate of competence means a certificate issued by the Board under regulation 41 of the Regulations

CPD means continuing professional development

CPD activities—

- (a) means the continuing professional development activities specified in clause 31; and
- (b) does not include normal duties or business as usual activities

examination means an oral examination, or other examination, or both

five-year period means the 5 year period commencing from the date of issue of the certificate of competence

holder means a person who holds a certificate of competence

lifetime quarry manager certificate of competence means a certificate of competence continued under clause 7(5) of Schedule 1 of the Regulations

NZQA means the New Zealand Qualifications Authority continued under section 430 of the Education and Training Act 2020

panel of examiners means a panel approved by the Board to conduct an examination of applicants for the purpose of considering whether to issue a certificate of competence

Regulations means the Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016

restricted activity means an activity described in Part 2 of Schedule 23

unit standard means a standard listed on the NZQA Qualifications and Credentials Framework referred to in section 436 of the Education and Training Act 2020

unrestricted activity means an activity described in Part 1 of Schedule 23.

- (2) A reference in this safe work instrument to a required period of work experience means the total period of work experience and is not limited to one continuous period.
- (3) Any term or expression that is defined in the Act or the Regulations and used, but not defined, in this safe work instrument has the same meaning as in the Act or the Regulations.

Part 2 Competency requirements for certificates of competence

5 Applicants for issue of certificate of competence to meet prescribed competency requirements

(1) An applicant for the issue of a certificate of competence must meet the competency requirements prescribed in subpart A of this Part for that certificate.

(2) An applicant for the issue of a certificate of competence must meet any applicable additional competency requirements prescribed in subpart B of this Part for that certificate.

6 Certain applicants for renewal and lifetime quarry managers to meet additional competency requirements

An applicant for the renewal of a certificate of competence, and any holder of a lifetime quarry manager certificate of competence, must meet any applicable additional competency requirements prescribed in subpart B of this Part for that certificate.

Subpart A—Certificates of competence

7 Site senior executive certificate of competence

- (1) An applicant for a certificate of competence as a site senior executive must—
 - (a) have passed all of the unit standards set out in Schedule 1; and
 - (b) have the experience described in subclause (2); and
 - (c) pass an examination referred to in subclause (3).
- (2) The applicant must satisfy the Board that they have at least 12 months work experience in the extractives industry in a senior management role that is acceptable to the Board.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

8 First-class mine manager certificate of competence

- (1) An applicant for a certificate of competence as a first-class mine manager must—
 - (a) have passed all of the unit standards set out in Schedule 2; and
 - (b) have the experience described in subclause (2); and
 - (c) pass an examination referred to in subclause (3); and
 - (d) hold a current first aid certificate.
- (2) The applicant must satisfy the Board that they have at least 3 years work experience in the underground workings of a mining operation or tunnelling operation (including any period served in the course of study), including at least—
 - (a) 2 years in a mining operation; and
 - (b) 9 months carrying out 3 or more of the following types of work at a mining operation or tunnelling operation:
 - (i) development operations (excluding operating tunnel boring machines):
 - (ii) extraction operations:
 - (iii) installation of ground support:

- (iv) filling operations:
- (v) shaft sinking:
- (vi) installation and maintenance of services.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

9 First-class coal mine manager certificate of competence

- (1) An applicant for a certificate of competence as a first-class coal mine manager must—
 - (a) have passed all of the unit standards set out in Schedule 3; and
 - (b) have the experience described in subclauses (3) or (4), as applicable; and
 - (c) pass an examination referred to in subclause (5); and
 - (d) hold a current first aid certificate.
- (2) Subclause (3) applies if the applicant—
 - (a) has a degree in Mineral Technology (Mining) conferred by the University of Otago; or
 - (b) has a qualification in mining from another institution that the NZQA recognises as equivalent to a four-year Bachelor's degree in mining.
- (3) An applicant referred to in subclause (2) must satisfy the Board that they have at least 3 years work experience in the underground workings of a coal mining operation (including any period served in the course of study), including at least—
 - (a) 6 months actively engaged in the development and extraction of coal and support of the face openings; and
 - (b) 6 months carrying out back-bye work involving all of the following activities:
 - (i) preparing for, and installing, mechanical or hydraulic transport of coal:
 - (ii) building permanent or temporary stoppings:
 - (iii) installation of auxiliary ventilation:
 - (iv) installation of ground support:
 - (v) installation and maintenance of services.
- (4) If subclause (3) does not apply, the applicant must satisfy the Board that they have at least 5 years work experience in the underground workings of a coal mining operation, including at least—
 - (a) 2 years actively engaged in the development and extraction of coal and support of the face openings; and
 - (b) 12 months carrying out back-bye work involving all of the following activities:

- (i) preparing for, and installing, mechanical or hydraulic transport of coal:
- (ii) building permanent or temporary stoppings:
- (iii) installation of auxiliary ventilation:
- (iv) installation of ground support:
- (v) installation and maintenance of services.
- (5) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

10 A-grade opencast coal mine manager certificate of competence

- (1) An applicant for a certificate of competence as an A-grade opencast coal mine manager must—
 - (a) have passed all of the unit standards set out in Schedule 4; and
 - (b) if the applicant intends to work at an opencast coal mining operation that uses explosives, have also passed the additional unit standards set out in clause 29; and
 - (c) either—
 - (i) hold a certificate of competence as a B-grade opencast coal mine manager, A or B-grade quarry manager, or A or B-grade alluvial mine manager; or
 - (ii) have the experience described in subclause (2) or (3); and
 - (d) pass an examination referred to in subclause (4); and
 - (e) hold a current first aid certificate.
- (2) Under this subclause, the applicant has the required experience if they satisfy the Board that they have at least 2 years work experience in the workings of an opencast mining operation, quarrying operation, or alluvial mining operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (a) excavation:
 - (b) drill and blast:
 - (c) load and haul:
 - (d) processing:
 - (e) stockpile and loadout.
- (3) Under this subclause, the applicant has the required experience if they satisfy the Board that they have work experience of at least—
 - (a) 2 years in the underground workings of a mining operation, and

- (b) 12 months in the workings of an alluvial mining operation, opencast mining operation, or quarrying operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (i) excavation:
 - (ii) drill and blast:
 - (iii) load and haul:
 - (iv) processing:
 - (v) stockpile and loadout.
- (4) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

11 B-grade opencast coal mine manager certificate of competence

- (1) An applicant for a certificate of competence as a B-grade opencast coal mine manager must—
 - (a) have passed all of the unit standards set out in Schedule 5; and
 - (b) if the applicant intends to work at an opencast coal mining operation that uses explosives, have also passed the additional unit standards set out in clause 29; and
 - (c) either—
 - (i) hold a certificate of competence as an A or B-grade quarry manager, Bgrade quarry manager, or A or B-grade alluvial mine manager; or
 - (ii) have the experience described in subclause (2) or (3); and
 - (d) pass an examination referred to in subclause (4); and
 - (e) hold a current first aid certificate.
- (2) Under this subclause the applicant has the required experience if they satisfy the Board that they have at least 2 years work experience in the workings of an opencast mining operation, quarrying operation, or alluvial mining operation, including at least 9 months carrying out 3 or more of the following types of work in an opencast mine or quarry:
 - (a) excavation:
 - (b) drill and blast:
 - (c) load and haul:
 - (d) processing:
 - (e) stockpile and loadout.

- (3) Under this subclause the applicant has the required experience if they satisfy the Board that they have work experience of at least—
 - (a) 2 years in the underground workings of a mining operation; and
 - (b) 12 months in the workings of an alluvial mining operation, opencast mining operation, or quarrying operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (i) excavation:
 - (ii) drill and blast:
 - (iii) load and haul:
 - (iv) processing:
 - (v) stockpile and loadout.
- (4) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

12 A-grade metalliferous mine manager certificate of competence

- (1) An applicant for a certificate of competence as an A-grade metalliferous mine manager must—
 - (a) have passed all of the unit standards set out in Schedule 6; and
 - (b) have the experience described in subclause (2); and
 - (c) pass an examination referred to in subclause (3); and
 - (d) hold a current first aid certificate.
- (2) The applicant must satisfy the Board that they have at least 2 years work experience in the underground workings of a mining operation or tunnelling operation (including any periods served in the course of study), including at least—
 - (a) 12 months in the underground workings of a mining operation; and
 - (b) 9 months carrying out 3 or more of the following types of work in an underground mine:
 - (i) development operations (excluding tunnel boring machines):
 - (ii) extraction operations:
 - (iii) installation of ground support systems:
 - (iv) filling operations:
 - (v) shaft sinking:
 - (vi) installation and maintenance of services.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—

- (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
- (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

13 B-grade metalliferous mine manager certificate of competence

- (1) An applicant for a certificate of competence as a B-grade metalliferous mine manager must—
 - (a) have passed all of the unit standards set out in Schedule 7; and
 - (b) have the experience described in subclause (2); and
 - (c) pass an examination referred to in subclause (3); and
 - (d) hold a current first aid certificate.
- (2) The applicant must satisfy the Board that they have at least 2 years work experience in the underground workings of a mining operation or tunnelling operation (including any periods served in the course of study), including at least—
 - (a) 12 months in a mining operation; and
 - (b) 9 months carrying out 3 or more of the following types of work in an underground mine:
 - (i) development operations (excluding operating tunnel boring machines):
 - (ii) extraction operations:
 - (iii) installation of ground support systems:
 - (iv) filling operations:
 - (v) shaft sinking:
 - (vi) installation and maintenance of services.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

14 A-grade quarry manager certificate of competence

- (1) An applicant for a certificate of competence as an A-grade quarry manager must—
 - (a) have passed all of the unit standards set out in Schedule 8; and
 - (b) if the applicant intends to work at a quarrying operation that uses explosives, have also passed the additional unit standards set out in clause 29; and
 - (c) either—

- (i) hold a certificate of competence as an A or B-grade opencast coal mine manager, B-grade quarry manager, or A or B-grade alluvial mine manager; or
- (ii) have the experience described in subclause (2) or (3); and
- (d) pass an examination referred to in subclause (4); and
- (e) hold a current first aid certificate.
- (2) Under this subclause, the applicant has the required experience if they satisfy the Board that they have at least 2 years work experience in the workings of an opencast mining operation, quarrying operation, or alluvial mining operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (a) excavation:
 - (b) drill and blast:
 - (c) load and haul:
 - (d) processing:
 - (e) stockpile and loadout.
- (3) Under this subclause, the applicant has the required experience if they satisfy the Board that they have work experience of at least—
 - (a) 2 years in the underground workings of a mining operation; and
 - (b) 12 months in the workings of an alluvial mining operation, opencast mining operation, or quarrying operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (i) excavation:
 - (ii) drill and blast:
 - (iii) load and haul:
 - (iv) processing:
 - (v) stockpile and loadout.
- (4) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

15 B-grade quarry manager certificate of competence

- (1) An applicant for a certificate of competence as a B-grade quarry manager must—
 - (a) have passed all of the unit standards set out in Schedule 9; and
 - (b) if the applicant intends to work at a quarrying operation that uses explosives, have also passed the additional unit standards set out in clause 29; and
 - (c) either—

- (i) hold a certificate of competence as an A or B-grade opencast coal mine manager, or A or B-grade alluvial mine manager; or
- (ii) have the experience described in subclause (2) or (3); and
- (d) pass an examination referred to in subclause (4); and
- (e) hold a current first aid certificate.
- (2) Under this subclause, the applicant has the required experience if they satisfy the Board that they have at least 2 years work experience in the workings of an opencast mining operation, quarrying operation, or alluvial mining operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (a) excavation:
 - (b) drill and blast:
 - (c) load and haul:
 - (d) processing:
 - (e) stockpile and loadout.
- (3) Under this subclause, the applicant has the required experience if they satisfy the Board that they have work experience of at least—
 - (a) 2 years in the underground workings of a mining operation; and
 - (b) 12 months in the workings of an alluvial mining operation, opencast mining operation, or quarrying operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (i) excavation:
 - (ii) drill and blast:
 - (iii) load and haul:
 - (iv) processing:
 - (v) stockpile and loadout.
- (4) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

16 Certificate of competence as manager of specified quarrying operation

- (1) An applicant for a certificate of competence as a manager of a specified quarrying operation must—
 - (a) satisfy the Board that the quarrying operation to be specified in the certificate of competence meets the requirements in subclause (2); and
 - (b) have passed all of the unit standards set out in Schedule 10; and
 - (c) either—

- (i) hold a certificate of competence as an A or B-grade opencast coal mine manager, A or B-grade quarry manager, or A or B-grade alluvial mine manager; or
- (ii) have the experience described in subclause (3) or (4); and
- (d) pass an examination referred to in subclause (5); and
- (e) hold a current first aid certificate.
- (2) For the purposes of this clause, a specified quarrying operation is a quarrying operation that meets all of the following requirements:
 - (a) no more than 4 quarry workers ordinarily work at the site at any one time; and
 - (b) explosives are not used; and
 - (c) the base of any excavation carried out at the quarrying operation is no more than 5 metres from the surface; and
 - (d) there are no voids or underground workings within the planned extraction zone; and
 - (e) no worker is required to work below the surface level of any body of fluid; and
 - (f) the actual processing rate does not exceed an average of 1,000 tonnes per week; and
 - (g) the quarry will be operating for a period or periods that total at least 24 months; and
 - (h) any tip head or stockpiles at the operation are less than 5 metres high.
- (3) Under this subclause, the applicant has the required experience if they satisfy the Board that they have at least 2 years work experience in the workings of an opencast mining operation, quarrying operation, or alluvial mining operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (a) excavation:
 - (b) drill and blast:
 - (c) load and haul:
 - (d) processing:
 - (e) stockpile and loadout.
- (4) Under this subclause, the applicant has the required experience if they satisfy the Board that they have work experience of at least—
 - (a) 2 years in the underground workings of a mining operation; and
 - (b) 12 months in the workings of an alluvial mining operation, opencast mining operation, or quarrying operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (i) excavation:
 - (ii) drill and blast:
 - (iii) load and haul:

- (iv) processing:
- (v) stockpile and loadout.
- (5) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

17 A-grade alluvial mine manager certificate of competence

- (1) An applicant for a certificate of competence as an A-grade alluvial mine manager must—
 - (a) have passed all of the unit standards set out in Schedule 11; and
 - (b) if the applicant intends to work at an alluvial mining operation that uses explosives, have also passed the additional unit standards set out in clause 29; and
 - (c) either—
 - (i) hold a certificate of competence as an A or B-grade opencast coal mine manager, A or B-grade quarry manager, or B-grade alluvial mine manager; or
 - (ii) have the experience described in subclause (2) or (3); and
 - (d) pass an examination referred to in subclause (4); and
 - (e) hold a current first aid certificate.
- (2) Under this subclause, the applicant has the required experience if they satisfy the Board that they have at least 2 years work experience in the workings of an opencast mining operation, quarrying operation, or alluvial mining operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (a) excavation:
 - (b) drill and blast:
 - (c) load and haul:
 - (d) processing:
 - (e) stockpile and loadout.
- (3) Under this subclause, the applicant has the required experience if they satisfy the Board that they have work experience of at least—
 - (a) 2 years in the underground workings of a mining operation; and
 - (b) 12 months in the workings of an alluvial mining operation, opencast mining operation, or quarrying operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (i) excavation:

- (ii) drill and blast:
- (iii) load and haul:
- (iv) processing:
- (v) stockpile and loadout.
- (4) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

18 B-grade alluvial mine manager certificate of competence

- (1) An applicant for a certificate of competence as a B-grade alluvial mine manager must—
 - (a) have passed all of the unit standards set out in Schedule 12; and
 - (b) if the applicant intends to work at an alluvial mining operation that uses explosives, have also passed the additional unit standards set out in clause 29; and
 - (c) either—
 - (i) hold a certificate of competence as an A or B-grade opencast coal mine manager, or A or B-grade quarry manager; or
 - (ii) have the experience described in subclause (2) or (3); and
 - (d) pass an examination referred to in subclause (4); and
 - (e) hold a current first aid certificate.
- (2) Under this subclause, the applicant has the required experience if they satisfy the Board that they have at least 2 years work experience in the workings of an opencast mining operation, quarrying operation, or alluvial mining operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (a) excavation:
 - (b) drill and blast:
 - (c) load and haul:
 - (d) processing:
 - (e) stockpile and loadout.
- (3) Under this subclause, the applicant has the required experience if they satisfy the Board that they have work experience of at least—
 - (a) 2 years in the underground workings of a mining operation; and
 - (b) 12 months in the workings of an alluvial mining operation, opencast mining operation, or quarrying operation, including at least 9 months carrying out 3 or more of the following types of work:
 - (i) excavation:

- (ii) drill and blast:
- (iii) load and haul:
- (iv) processing:
- (v) stockpile and loadout.
- (4) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

19 A-grade tunnel manager certificate of competence

- (1) An applicant for a certificate of competence as an A-grade tunnel manager must—
 - (a) have passed all of the unit standards set out in Schedule 13; and
 - (b) if the applicant intends to work at a tunnelling operation that uses explosives, have also passed the additional unit standards set out in clause 29; and
 - (c) have the experience described in subclause (2); and
 - (d) pass an examination referred to in subclause (3); and
 - (e) hold a current first aid certificate.
- (2) The applicant must satisfy the Board that they have at least 2 years work experience in the underground workings of a mining operation or tunnelling operation (including any periods served in the course of study), including at least
 - (a) 12 months each in the underground workings of a tunnelling operation and in the underground workings of a mining operation; and
 - (b) 9 months carrying out 3 or more of the following types of work in an underground mining or tunnelling operation:
 - (i) excavation activities or development:
 - (ii) materials handling:
 - (iii) installation and maintenance of services:
 - (iv) installation of ground support:
 - (v) shaft sinking.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

20 B-grade tunnel manager certificate of competence

(1) An applicant for a certificate of competence as a B-grade tunnel manager must—

- (a) have passed all of the unit standards set out in Schedule 14; and
- (b) if the applicant intends to work at a tunnelling operation that uses explosives, have also passed the additional unit standards set out in clause 29; and
- (c) have the experience described in subclause (2); and
- (d) pass an examination referred to in subclause (3); and
- (e) hold a current first aid certificate.
- (2) The applicant must satisfy the Board that they have at least 2 years work experience in the underground workings of a mining operation or tunnelling operation (including any periods served in the course of study), including at least
 - (a) 12 months each in the underground workings of a tunnelling operation and in the underground workings of a mining operation; and
 - (b) at least 9 months of their work experience includes carrying out 3 or more of the following types of work in an underground mining or tunnelling operation:
 - (i) excavation activities or development:
 - (ii) materials handling:
 - (iii) installation and maintenance of services:
 - (iv) installation of ground support:
 - (v) shaft sinking.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

21 Coal mine underviewer certificate of competence

- (1) An applicant for a certificate of competence as a coal mine underviewer must—
 - (a) have passed all of the unit standards set out in Schedule 15; and
 - (b) have the experience described in subclause (3) or (4); and
 - (c) pass an examination referred to in subclause (5); and
 - (d) hold a current first aid certificate.
- (2) Subclause (3) applies if the applicant—
 - (a) has a degree in Mineral Technology (Mining) conferred by the University of Otago; or
 - (b) has a qualification in mining from another institution that the NZQA recognises as equivalent to a four-year Bachelor's degree in mining.
- (3) An applicant referred to in subclause (2) must satisfy the Board that they have at least 3 years work experience in the underground workings of a coal mining operation (including any period served in the course of study), including at least—

- (a) 6 months actively engaged in the development and extraction of coal and support of the face openings; and
- (b) 6 months of back-bye work involving all of the following activities:
 - (i) preparing for, and installing, mechanical or hydraulic transport of coal; and
 - (ii) building permanent or temporary stoppings; and
 - (iii) installation of auxiliary ventilation; and
 - (iv) installation of ground support; and
 - (v) installation and maintenance of services.
- (4) If subclause (3) does not apply, the applicant must satisfy the Board that they have at least 5 years work experience in the underground workings of a coal mining operation, including at least—
 - (a) 2 years actively engaged in the development and extraction of coal and support of the face openings; and
 - (b) 12 months of back-bye work involving all of the following activities:
 - (i) preparing for, and installing, mechanical or hydraulic transport of coal; and
 - (ii) building permanent or temporary stoppings; and
 - (iii) installation of auxiliary ventilation; and
 - (iv) installation of ground support; and
 - (v) installation and maintenance of services.
- (5) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

22 Coal mine deputy certificate of competence

- (1) An applicant for a certificate of competence as a coal mine deputy must—
 - (a) have passed all of the unit standards set out in Schedule 16; and
 - (b) have the experience described in subclause (3) or (4); and
 - (c) pass an examination referred to in subclause (5); and
 - (d) hold a current first aid certificate.
- (2) Subclause (3) applies if the applicant—
 - (a) has a degree in Mineral Technology (Mining) conferred by the University of Otago; or
 - (b) has a qualification in mining from another institution that the NZQA recognises as equivalent to a four-year Bachelor's degree in mining.
- (3) An applicant referred to in subclause (2) must satisfy the Board that—

- (a) they have at least 3 years work experience in the underground workings of a coal mining operation (including any period served in the course of study); and
- (b) their work experience includes at least 6 months actively engaged in the development and extraction of coal and support of the face openings.
- (4) If subclause (3) does not apply, the applicant must satisfy the Board that they have at least 5 years work experience in the underground workings of a coal mining operation, including at least—
 - (a) 2 years actively engaged in the development and extraction of coal and support of the face openings; and
 - (b) 12 months of back-bye work involving all of the following activities:
 - (i) preparing for and installing either mechanical or hydraulic transport of coal:
 - (ii) building permanent or temporary stoppings:
 - (iii) installation of auxiliary ventilation:
 - (iv) erection of either steel or timber sets:
 - (v) installation of roof bolts:
 - (vi) installation and maintenance of services.
- (5) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

23 Gas monitor certificate of competence

- (1) An applicant for a certificate of competence as a gas monitor must—
 - (a) have passed all of the unit standards set out in Schedule 17; and
 - (b) have the experience described in subclause (2); and
 - (c) pass an examination referred to in subclause (3); and
 - (d) hold a current first aid certificate.
- (2) The applicant must satisfy the Board that they have at least 12 months work experience in coal exploration operations or in a coal mining operation.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

24 Electrical superintendent certificate of competence

(1) An applicant for a certificate of competence as an electrical superintendent must—

- (a) have passed all of the unit standards set out in Schedule 18; and
- (b) have the qualifications and experience described in subclause (2) or (3); and
- (c) pass an examination referred to in subclause (4); and
- (d) hold a current first aid certificate.
- (2) The applicant must—
 - (a) have one of the following qualifications:
 - (i) a New Zealand national qualification as an electrician:
 - (ii) a national qualification in electrical engineering:
 - (iii) a qualification in electrical engineering from another institution, recognised as equivalent by the NZQA to a New Zealand national qualification in electrical engineering, acceptable to the Board; and
 - (b) hold an appropriate Endorsed Mining practising licence under the Electricity Act 1992; and
 - (c) satisfy the Board that they have at least 3 years work experience acceptable to the Board in the extractives industry or heavy industry, including a minimum of 12 months experience carrying out the following types of work in respect of mobile or fixed electrical installations:
 - (i) installation:
 - (ii) commissioning:
 - (iii) electrical maintenance:
 - (iv) repair.
- (3) The applicant must—
 - (a) have one of the following qualifications:
 - (i) a degree in electrical engineering conferred by a New Zealand university or by another university acceptable to the Board:
 - (ii) a qualification in electrical engineering from another institution, recognised as equivalent by the NZQA to a four-year Bachelor's degree in electrical engineering, acceptable to the Board; and
 - (b) satisfy the Board that they have at least 12 months work experience acceptable to the Board in the extractives industry or heavy industry carrying out the following types of work in respect of mobile or fixed electrical installations:
 - (i) installation:
 - (ii) commissioning:
 - (iii) electrical maintenance:
 - (iv) repair.
- (4) The applicant must satisfy a panel of examiners, by way of examination, that they—

- (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
- (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

25 Mechanical superintendent certificate of competence

- (1) An applicant for a certificate of competence as a mechanical superintendent must—
 - (a) have passed all of the unit standards set out in Schedule 19; and
 - (b) have the qualifications and experience described in subclause (2) or (3); and
 - (c) pass an examination referred to in subclause (4); and
 - (d) hold a current first aid certificate.
- (2) The applicant must—
 - (a) have one of the following qualifications:
 - (i) a New Zealand national qualification in mechanical fitting:
 - (ii) a national qualification in mechanical engineering acceptable to the Board:
 - (iii) a qualification in mechanical engineering from another institution, recognised as equivalent by the NZQA to a New Zealand national qualification in mechanical engineering, acceptable to the Board; and
 - (b) satisfy the Board that they have at least 3 years work experience acceptable to the Board in the extractives industry or heavy industry, including at least 12 months experience carrying out the following types of work in respect of mobile or fixed plant:
 - (i) installation:
 - (ii) commissioning:
 - (iii) mechanical maintenance:
 - (iv) repair.
- (3) The applicant must—
 - (a) have one of the following qualifications:
 - (i) a degree in mechanical engineering conferred by a New Zealand university:
 - (ii) a qualification in mechanical engineering from another institution, recognised as equivalent by the NZQA to a four-year Bachelor's degree in mechanical engineering, acceptable to the Board; and
 - (b) satisfy the Board that they have at least 12 months work experience acceptable to the Board in the extractives industry or heavy industry carrying out the following types of work in respect of mobile or fixed plant:
 - (i) installation:
 - (ii) commissioning:
 - (iii) mechanical maintenance.

- (4) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

26 Mine surveyor certificate of competence

- (1) An applicant for a certificate of competence as a mine surveyor must—
 - (a) have passed all of the unit standards set out in Schedule 20; and
 - (b) if the applicant intends to work underground, have also passed the additional unit standards in clause 30; and
 - (c) have the qualifications and experience described in subclause (2); and
 - (d) pass an examination referred to in subclause (3); and
 - (e) hold a current first aid certificate.
- (2) The applicant must satisfy the Board that they—
 - (a) have one of the following qualifications:
 - (i) New Zealand Diploma in Surveying:
 - (ii) degree in surveying:
 - (iii) a qualification in surveying recognised as equivalent to a New Zealand diploma or degree in surveying (level 6 or higher) by the NZQA; and
 - (b) have at least 3 years work experience in surveying, including—
 - (i) 12 months work experience surveying in the extractive industry; and
 - (ii) if the applicant intends to work underground, at least 12 months surveying in the underground workings of a mining operation or tunnelling operation.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

27 Ventilation officer certificate of competence

- (1) An applicant for a certificate of competence as a ventilation officer must—
 - (a) have passed all of the unit standards set out in Schedule 21; and
 - (b) if the applicant intends to work in an operation involved in coal extraction, have also passed the additional unit standards in clause 31; and
 - (c) have the experience described in subclause (2); and
 - (d) pass an examination referred to in subclause (3); and
 - (e) hold a current first aid certificate.

- (2) The applicant must satisfy the Board that—
 - (a) they have at least 2 years work experience in the workings of an underground mining operation or tunnelling operation; and
 - (b) if they intend to work in an operation involved in coal extraction, their work experience includes at least 12 months in the workings of an underground coal mine.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

28 Winding engine driver certificate of competence

- (1) An applicant for a certificate of competence as a winding engine driver must—
 - (a) have passed all of the unit standards set out in Schedule 22; and
 - (b) have the skills described in subclause (2); and
 - (c) pass an examination referred to in subclause (3); and
 - (d) hold a current first aid certificate.
- (2) The applicant must satisfy the Board that they have the ability to operate a winder and respond to the standard industry signals.
- (3) The applicant must satisfy a panel of examiners, by way of examination, that they—
 - (a) have satisfactory knowledge and application of good mining practice in the subject areas covered by this certificate of competence; and
 - (b) can communicate effectively to individuals or groups about relevant health and safety issues at an extractive site.

Subpart B—Additional competency requirements

29 Additional competency requirements for work in operations using explosives

- (1) This clause applies to an applicant for the issue or renewal of the following certificates of competence, if the applicant intends to work in an operation that uses explosives:
 - (a) A-grade opencast coal mine manager:
 - (b) B-grade opencast coal mine manager:
 - (c) A-grade quarry manager:
 - (d) B-grade quarry manager:
 - (e) A-grade alluvial mine manager:
 - (f) B-grade alluvial mine manager:
 - (g) A-grade tunnel manager:

- (h) B-grade tunnel manager.
- (2) An applicant to whom this clause applies must have passed the following additional unit standards:
 - (a) 17694: Demonstrate knowledge of explosives and their properties:
 - (b) 21152: Demonstrate and apply knowledge of storing explosives for use.

30 Additional competency requirements for work underground

- (1) This clause applies to an applicant for the issue or renewal of a mine surveyor certificate of competence, if the applicant intends to work underground.
- (2) An applicant to whom this clause applies must have passed the following additional unit standards:
 - (a) 17741: Demonstrate specialist underground survey techniques:
 - (b) 15666: Demonstrate knowledge of geology for underground extraction:
 - (c) 7146: Demonstrate basic knowledge and ability required to work in an underground operation.

31 Additional competency requirements for work in operations involving coal extraction

- (1) This clause applies to an applicant for the issue or renewal of a ventilation officer certificate of competence, if the applicant intends to work in an operation involved in coal extraction.
- (2) An applicant to whom this clause applies must have passed the following additional unit standards:
 - (a) 7145: Design and maintain effective ventilation systems for an underground coal mine:
 - (b) 21280: Demonstrate knowledge and evaluate the design of an effective ventilation system in an underground mine.

32 Additional competency requirements for person holding a lifetime quarry manager certificate of competence

- (1) This clause applies to a person who holds a lifetime quarry manager certificate of competency if the applicant intends to carry out work on or after 1 July 2028 in an operation that uses explosives.
- (2) A person to whom this clause applies must satisfy the Board that they have passed the following additional unit standards before carrying out the work:
 - (a) 17694: Demonstrate knowledge of explosives and their properties:
 - (b) 21152: Demonstrate and apply knowledge of storing explosives for use.

Part 3 CPD requirements

33 Applicant for renewal of certificate of competence to meet prescribed CPD requirements

A holder who applies to renew their certificate of competence must meet the CPD requirements prescribed in this Part for renewal of that certificate.

34 CPD requirements apply to person holding a lifetime quarry manager certificate of competence

- (1) A person who holds a lifetime quarry manager certificate of competence must comply with the CPD requirements in this Part as modified by this clause.
- (2) The five-year period for CPD requirements for lifetime quarry manager certificates of competence—
 - (a) commences on 1 January 2023; and
 - (b) renews every 5 years while the certificate is current.

35 CPD requirements apply regardless of whether work carried out under certificate of competence by the holder

- (1) A holder or person who holds a life-time quarry manager certificate of competence must complete the CPD requirements in this safe work instrument regardless of whether they worked within the extractives industry for the duration of their certificate of competence.
- (2) A person who has had their certificate of competence suspended by the Board must still complete their CPD requirements and this safe work instrument applies as if that person was a holder.

36 Prescribed CPD requirements

- (1) A holder, or person who holds a life-time quarry manager certificate of competence, must—
 - (a) only claim CPD hours for CPD activities described in clause 32; and
 - (b) complete the relevant CPD hours required under clauses 33 or 34.
- (2) Nothing in this safe work instrument prevents a holder, or person who holds a life-time quarry manager certificate of competence, from completing additional CPD hours above the minimum requirements set out in this safe work instrument.

Claimable CPD activities and hours

37 Requirements for claimable CPD activities

- (1) Subject to this clause, a holder may claim CPD hours for activities if the activities—
 - (a) are directly relevant to—
 - (i) the holder's certificate of competence; and

- (ii) the areas of learning; and
- (b) are of a type specified in Schedule 23; and
- (c) maintain, improve, or broaden knowledge, understanding, skills, or personal qualities within the extractives industry.
- (2) A holder may claim CPD hours for restricted activities or unrestricted activities, but the number of hours claimed for restricted activities must not exceed the limits specified in Part 2 of Schedule 1.
- (3) A holder of a certificate of competence listed in Table 1 must comply with the specialist CPD requirements for that certificate.

Table 1: Specialist CPD requirements for holders of specific certificates of competence

Certificate of Competence	Specialist CPD Hours Required
Electrical Superintendent	A minimum of 30 hours must be from CPD activities that are
	directly subject-related to the area of specialisation
Mechanical Superintendent	A minimum of 30 hours must be from CPD activities that are
	directly subject-related to the area of specialisation
Mine Surveyor	A minimum of 15 hours must be from CPD activities that are
	directly subject-related to the area of specialisation
Ventilation Officer	A minimum of 15 hours must be from CPD activities that are
	directly subject-related to the area of specialisation
Winding Engine Driver	A minimum of 15 hours must be from CPD activities that are
	directly subject-related to the area of specialisation

38 CPD hours

(1) Subject to this clause, a holder must complete the CPD hours set out in Table 2 for the relevant certificate of competence.

Table 2: CPD hours for specific certificates of competence

Certificate of Competence	CPD hours required
Site Senior Executive	5 year total: 120 hours
First Class Mine Manager	5 year total: 120 hours
First Class Coal Mine Manager	5 year total: 120 hours
A-grade Opencast Coal Mine Manager	5 year total: 120 hours
B-grade Opencast Coal Mine Manager	5 year total: 60 hours
A-grade Metalliferous Mine Manager	5 year total: 120 hours
B-grade Metalliferous Mine Manager	5 year total: 60 hours
A-grade Quarry Manager	5 year total: 120 hours
B-grade Quarry Manager	5 year total: 60 hours
Manager of specified quarrying operation	5 year total: 30 hours
A-grade Alluvial Mine Manager	5 year total: 120 hours
B-grade Alluvial Mine Manager	5 year total: 60 hours
A-grade Tunnel Manager	5 year total: 120 hours
B-grade Tunnel Manager	5 year total: 60 hours
Coal Mine Underviewer	5 year total: 120 hours
Coal Mine Deputy	5 year total: 60 hours
Gas Monitor	5 year total: 30 hours
Electrical Superintendent	5 year total: 120 hours
Mechanical Superintendent	5 year total: 120 hours

Mine Surveyor	5 year total: 60 hours
Ventilation Officer	5 year total: 60 hours
Winding Engine Driver	5 year total: 40 hours

- (2) For a holder of a certificate of competence listed in Table 1, the CPD hours required in Table 2 include the specialist CPD requirements specified in Table 1.
- (3) A holder of more than one certificate of competence is only required to complete the number of CPD hours required for one certificate so long as—
 - (a) that certificate is the certificate with the highest number of CPD hours required; and
 - (b) if one of the certificates is listed in Table 1, the CPD hours required includes the specialist CPD requirements specified in Table 1.

Example

A holder who holds a first class mine manager certificate and an electrical superintendent certificate is only required to complete 120 CPD hours, but that must include a minimum of 30 hours from CPD activities that are directly subject-related to the role of an electrical superintendent.

Schedule 1 Site senior executive unit standards

Unit No.	Title
28740	Establish and maintain the work, health and safety (WHS) management system at an
	extractive site
28739	Establish and maintain risk management systems at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
16810	Develop a Workplace Emergency Management Plan
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System

Schedule 2 First-class mine manager unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
28982	Develop standard operating procedures for an extractive site
21281	Test for gases, interpret findings, and demonstrate knowledge of follow-up actions in an
	underground coal mine
21821	Maintain and install services for an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extractive site
22057	Demonstrate knowledge of pneumatic and hydraulic power systems used in extractive
	operations
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive
	industries
15662	Evaluate ground conditions and support methods for maintaining stability in
	underground operations
15663	Demonstrate knowledge of the geotechnical requirements for ground stability at surface
	extraction sites
15664	Demonstrate introductory knowledge of geology at surface extraction sites
15665	Demonstrate knowledge of geology and geotechnical features and failures for surface
	extraction
15666	Demonstrate knowledge of geology for underground extraction
21278	Describe, install, and reassess support systems for an underground operation
7145	Design and maintain effective ventilation systems for an underground coal mine
17743	Demonstrate knowledge of survey principles and apply to an extraction site
17744	Read and interpret extractive site plans
21629	Evaluate plans to manage old workings and inundations at extractive sites
17691	Use mathematics to solve problems in an extractive industries workplace
8905	Demonstrate knowledge of construction and maintenance of working surfaces at an
	extractive site
30902	Demonstrate knowledge of extraction methods, and selection of plant and equipment for
	surface extraction
30903	Demonstrate knowledge of mining methods, and analyse and select plant for
22202	metalliferous underground extraction
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
1/694	Demonstrate knowledge of explosives and their properties
21152	Demonstrate and apply knowledge of storing explosives for use
1/693	Explain and determine water flow, and describe the selection of pumps and structures
21151	Tor an extractive site
21151	Demonstrate knowledge of the monogeneration operations for an extractive site
21155	Demonstrate knowledge of the management and use of water at an extractive site
21130	anvironmental impacts
28083	Correction out the risk management process at an extractive site
20905	Lingmost and report on sofety and expertions at an extractive site
8002	Prepare a safety inspection plan for extractive operations
16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage ap
/172	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide hasic life support
0402	1 I OVIGE DASIE HIE SUPPOR

Health and Safety at Work (Mining Operations and Quarrying Operations— Prescribed Competency Requirements for Certificates of Competence) Safe Work Instrument 2023

29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 3 First-class coal mine manager unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
21281	Test for gases, interpret findings, and demonstrate knowledge of follow-up actions in an
	underground coal mine
21821	Maintain and install services for an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extractive site
21661	Demonstrate knowledge of the use of electrical reticulation plant and equipment in
	extractive operations
22057	Demonstrate knowledge of pneumatic and hydraulic power systems used in extractive
	operations
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive
	industries
15662	Evaluate ground conditions and support methods for maintaining stability in
	underground operations
15663	Demonstrate knowledge of the geotechnical requirements for ground stability at surface
	extraction sites
15665	Demonstrate knowledge of geology and geotechnical features and failures for surface
	extraction
15666	Demonstrate knowledge of geology for underground extraction
21278	Describe, install, and reassess support systems for an underground operation
7145	Design and maintain effective ventilation systems for an underground coal mine
21280	Demonstrate knowledge and evaluate the design of an effective ventilation system in an
	underground mine
17743	Demonstrate knowledge of survey principles and apply to an extraction site
17444	Read and interpret extractive site plans
21629	Evaluate plans to manage old workings and inundations at extractive sites
17691	Use mathematics to solve problems in an extractive industries workplace
8905	Demonstrate knowledge of construction and maintenance of working surfaces at an
21662	extractive site
21002	underground and mining
20002	Demonstrate knowledge of extraction methods, and selection of plant and equipment for
30902	surface extraction
30904	Demonstrate knowledge of mining methods, and analyse and select plant for
50704	underground coalmines
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
17694	Demonstrate knowledge of explosives and their properties
21152	Demonstrate and apply knowledge of storing explosives for use
17693	Explain and determine water flow, and describe the selection of pumps and structures
	for an extractive site
21151	Demonstrate knowledge of planning rehabilitation operations for an extractive site
21155	Demonstrate knowledge of the management and use of water at an extractive site
21156	Demonstrate knowledge of planning and managing extraction to minimise
	environmental impacts
28982	Develop standard operating procedures for an extractive site
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
7143	Inspect and report on safety and operations at an extractive site
8902	Prepare a safety inspection plan for extractive operations

Health and Safety at Work (Mining Operations and Quarrying Operations— Prescribed Competency Requirements for Certificates of Competence) Safe Work Instrument 2023

16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 4 A-grade opencast coal mine manager unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extractive site
8905	Demonstrate knowledge of construction and maintenance of working surfaces at an
	extractive site
32284	Follow, maintain and recommend modifications for stockpiling and tip head
	management plans at an extractive site
15663	Demonstrate knowledge of the geotechnical requirements for ground stability at surface
	extraction sites
15664	Demonstrate introductory knowledge of geology at surface extraction sites
30902	Demonstrate knowledge of extraction methods, and selection of plant and equipment for
	surface extraction
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive
	industries
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
21151	Demonstrate knowledge of planning rehabilitation operations for an extractive site
21155	Demonstrate knowledge of the management and use of water at extractive site
21156	Demonstrate knowledge of planning and managing extraction to minimise
	environmental impacts
28982	Develop standard operating procedures for an extractive site
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
7143	Inspect and report on safety and operations at an extractive site
8902	Prepare a safety inspection plan for extractive operations
16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 5 B-grade opencast coal mine manager unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extractive site
8905	Demonstrate knowledge of construction and maintenance of working surfaces at an
	extractive site
32284	Follow, maintain and recommend modifications for stockpiling and tip head
	management plans at an extractive site
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive
	industries
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
8902	Prepare a safety inspection plan for extractive operations
16686	Conduct an incident investigation at an extractive site
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
21155	Demonstrate knowledge of the management and use of water at an extractive site
21156	Demonstrate knowledge of planning and managing extraction to minimise
	environmental impacts
28742	Explain legislation related to health and safety, and supporting documents, applicable to
	an extractive site
or	
	Demonstrate knowledge of the application of regulatory requirements to manage an
7142	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 6 A-grade metalliferous mine manager unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
21661	Demonstrate knowledge of the use of electrical reticulation plant and equipment in
	extractive operations
22057	Demonstrate knowledge of pneumatic and hydraulic power systems used in extractive
	operations
21821	Maintain and install services for an underground operation
21278	Describe, install, and reassess support systems for an underground operation
15662	Evaluate ground conditions and support methods for maintaining stability in
	underground operations
15666	Demonstrate knowledge of geology for underground extraction
30903	Demonstrate knowledge of mining methods, and analyse and select plant and equipment
	for metalliferous underground extraction
17691	Use mathematics to solve problems in an extractive industries workplace
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
28982	Develop standard operating procedures for an extractive site
21151	Demonstrate knowledge of planning rehabilitation operations for an extractive site
7145	Design and maintain effective ventilation systems for an underground coal mine
21281	Test for gases, interpret findings, and demonstrate knowledge of follow-up actions in an
	underground coal mine
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extraction site
7143	Inspect and report on safety and operations at an extractive site
16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
52150	System
26855	Analyse human factors present in workplace practices at an extractive site
17694	Demonstrate knowledge of explosives and their properties
21152	Demonstrate and apply knowledge of storing explosives for use

Schedule 7 B-grade metalliferous mine manager unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
21661	Demonstrate knowledge of the use of electrical reticulation plant and equipment in
	extractive operations
22057	Demonstrate knowledge of pneumatic and hydraulic power systems used in extractive operations
21821	Maintain and install services for an underground operation
21278	Describe, install, and reassess support systems for an underground operation
17691	Use mathematics to solve problems in an extractive industries workplace
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
17705	Describe, develop and maintain basic ventilation systems for an underground coal mine
21281	Test for gases, interpret findings, and demonstrate knowledge of follow-up actions in an
	underground coal mine
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
7143	Inspect and report on safety and operations at an extractive site
16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
Or	
	Explain legislation related to health and safety, and supporting documents, applicable to an
28742	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management System
26855	Analyse human factors present in workplace practices at an extractive site
17694	Demonstrate knowledge of explosives and their properties
21152	Demonstrate and apply knowledge of storing explosives for use

Schedule 8 A-grade quarry manager unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
8902	Prepare a safety inspection plan for extractive operations
8905	Demonstrate knowledge of construction and maintenance of working surfaces at an
	extractive site
30902	Demonstrate knowledge of extraction methods, and selection of plant and equipment for surface extraction
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive industries
15663	Demonstrate knowledge of the geotechnical requirements for ground stability at surface extraction sites
15664	Demonstrate introductory knowledge of geology at surface extraction sites
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
32284	Follow, maintain and recommend modifications for stockpiling and tip head management plans at an extractive site
21156	Demonstrate knowledge of planning and managing extraction to minimise environmental impacts
21151	Demonstrate knowledge of planning rehabilitation operations for an extractive site
21155	Demonstrate knowledge of the management and use of water at an extractive site
28982	Develop standard operating procedures for an extractive site
28983	Carry out risk management processes at an extraction site
7143	Inspect and report on safety and operations at an extractive site
16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 9 B-grade quarry manager unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
8902	Prepare a safety inspection plan for extractive operations
8905	Demonstrate knowledge of construction and maintenance or working surfaces at an
	extractive site
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive
	industries
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
32284	Follow, maintain and recommend modifications for stockpiling and tip head
	management plans at an extractive site
21155	Demonstrate knowledge of the management and use of water at an extractive site
21156	Demonstrate knowledge of planning and managing extraction to minimise
	environmental impacts
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
16686	Conduct an incident investigation at an extractive site
28742	Explain legislation related to health and safety, and supporting documents, applicable to
	an extractive site
Or	
	Demonstrate knowledge of the application of regulatory requirements to manage an
7142	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
26055	System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 10 Manager of specified quarrying operation unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive
	industries
8905	Demonstrate knowledge of construction and maintenance of working surfaces at an
	extractive site
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
28793	Conduct safety inspections for extractive operations
16686	Conduct an incident investigation at an extractive site
28742	Explain legislation related to health and safety, and supporting documents, applicable to
	an extractive site
Or	
	Demonstrate knowledge of the application of regulatory requirements to manage an
7142	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support

Schedule 11 A-grade alluvial mine manager unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extractive site
8902	Prepare a safety inspection plan for extractive operations
8905	Demonstrate knowledge of construction and maintenance of working surfaces at an
	extractive site
30902	Demonstrate knowledge of extraction methods, and selection of plant and equipment for
	surface extraction
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive
	industries
15663	Demonstrate knowledge of the geotechnical requirements for ground stability at surface
	extraction sites
15664	Demonstrate introductory knowledge of geology at surface extraction sites
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
32284	Follow, maintain and recommend modifications for stockpiling and tip head
	management plans at an extractive site
21156	Demonstrate knowledge of planning and managing extraction to minimise
	environmental impacts
21151	Demonstrate knowledge of planning rehabilitation operations for an extractive site
21155	Demonstrate knowledge of the management and use of water at an extractive site
28982	Develop standard operating procedures for an extractive site
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
7143	Inspect and report on safety and operations at an extractive site
16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 12 B-grade alluvial mine manager unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
8902	Prepare a safety inspection plan for extractive operations
8905	Demonstrate knowledge of construction and maintenance of working surfaces at an
	extractive site
31092	Demonstrate knowledge of conveyors, and crushing and screening plant for extractive
	industries
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
32284	Follow, maintain and recommend modifications for stockpiling and tip head
	management plans at an extractive site
21155	Demonstrate knowledge of the management and use of water at an extractive site
21156	Demonstrate knowledge of planning and managing extraction to minimise
	environmental impacts
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
16686	Conduct an incident investigation at an extractive site
28742	Explain legislation related to health and safety legislation, and supporting documents,
	applicable to an extractive site
Or	
	Demonstrate knowledge of the application of regulatory requirements to manage an
7142	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
20551	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
22150	System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
0.0055	System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 13 A-grade tunnel manager unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extractive site
21661	Demonstrate knowledge of the use of electrical reticulation plant and equipment in
	extractive operations
22057	Demonstrate knowledge of pneumatic and hydraulic power systems used in extractive operations
21821	Maintain and install services for an underground operation
21278	Describe, install, and reassess support systems for an underground operation
15662	Evaluate ground conditions and support methods for maintaining stability in underground operations
15666	Demonstrate knowledge of geology for underground extraction
15669	Demonstrate knowledge of tunnelling methods, and selection of plant and equipment for tunnelling
17691	Use mathematics to solve problems in an extractive industries workplace
21151	Demonstrate knowledge of planning rehabilitation operations for an extractive site
7145	Design and maintain effective ventilation systems for an underground coal mine
21281	Test for gases, interpret findings, and demonstrate knowledge of follow-up actions in an underground coal mine
28982	Develop standard operating procedures for an extractive site
28983	Carry out risk management process at an extractive site
7143	Inspect and report on safety and operations at an extractive site
16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
26855	Analyse Human Factors present in workplace practices at an extractive site

Schedule 14 B-grade tunnel manager unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extractive site
21661	Demonstrate knowledge of the use of electrical reticulation plant and equipment in
	extractive operations
22057	Demonstrate knowledge of pneumatic and hydraulic power systems used in extractive
	operations
21821	Maintain and install services for an underground operation
21278	Describe, install, and reassess support systems for an underground operation
17691	Use mathematics to solve problems in an extractive industries workplace
17705	Describe, develop and maintain basic ventilation systems for an underground coal mine
21281	Test for gases, interpret findings, and demonstrate knowledge of follow-up actions in an underground coal mine
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
7143	Inspect and report on safety and operations at an extractive site
16686	Conduct an incident investigation at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
Or	
	Explain legislation related to health and safety, and supporting documents, applicable to
28742	an extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
26855	Analyse Human Factors present in workplace practices at an extractive site

Schedule 15 Coal mine underviewer unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
21281	Test for gases, interpret findings, and demonstrate knowledge of follow-up actions in an
	underground coal mine
21821	Maintain and install services for an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
21661	Demonstrate knowledge of the use of electrical reticulation plant and equipment in extractive operations
22057	Demonstrate knowledge of pneumatic and hydraulic power systems used in extractive operations
15666	Demonstrate knowledge of geology for underground extraction
21278	Describe, install, and reassess support systems for an underground operation
7145	Design and maintain effective ventilation systems for an underground coal mine
17744	Read and interpret extractive site plans
17743	Demonstrate knowledge of survey principles and apply to an extraction site
21629	Evaluate plans to manage old workings and inundations at extractive sites
17691	Use mathematics to solve problems in an extractive industries workplace
21662	Demonstrate knowledge of development and extraction plant and methods for
	underground coal mining
30904	Demonstrate knowledge of mining methods, and analyse and select plant for
	underground coalmines
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
17694	Demonstrate knowledge of explosives and their properties
21152	Demonstrate and apply knowledge of storing explosives for use
7143	Inspect and report on safety and operations at an extractive site
16686	Conduct an incident investigation at an extractive site
28983	Carry out the risk management process at an extractive site
21151	Demonstrate knowledge of planning rehabilitation operations for an extractive site
21155	Demonstrate knowledge of the management and use of water at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
(100	extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
20554	Management System functions and structure
29334	Apply operational knowledge of New Zealand's Coordinated Incident Management
20005	Demonstrate knowledge of the Underground Mines Emergency Distant
20150	Demonstrate knowledge of the Underground Mines Emergency Protocol
52130	System
26855	Analyse Human Factors present in workplace practices at an extractive site

Schedule 16 Coal mine deputy unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation.
21281	Test for gases, interpret findings, and demonstrate knowledge of follow-up actions in an underground coal mine
21821	Maintain and install services for an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
21661	Demonstrate knowledge of the use of electrical reticulation plant and equipment in extractive operations
22057	Demonstrate knowledge of pneumatic and hydraulic power systems used in extractive operations
21278	Describe, install, and reassess support systems for an underground operation
17705	Describe, develop, and maintain basic ventilation systems for an underground coal mine
21629	Evaluate plans to manage old workings and inundations at extractive sites
17691	Use mathematics to solve problems in an extractive industries workplace
21662	Demonstrate knowledge of development and extraction plant and methods for underground coal mining
32283	Explain hazards and controls associated with stockpiling and tip heads at extractive sites
17694	Demonstrate knowledge of explosives and their properties
21152	Demonstrate and apply knowledge of storing explosives for use
7143	Inspect and report on safety and operations at an extractive site
16686	Conduct an incident investigation at an extractive site
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
Or	
	Explain legislation related to health and safety, and supporting documents, applicable to
28742	an extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management System
26855	Analyse human factors present in workplace practices at an extractive site

Schedule 17 Gas monitor unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support

Schedule 18 Electrical superintendent unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
17744	Read and interpret extractive site plans
28982	Develop standard operating procedures for an extractive site
16686	Conduct an incident investigation at an extractive site
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
Or	
	Explain legislation related to health and safety, and supporting documents, applicable to
28742	an extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
26855	Analyse Human Factors present in workplace practices at an extractive site

Schedule 19 Mechanical superintendent unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
17744	Read and interpret extractive site plans
28982	Develop standard operating procedures for an extractive site
16686	Conduct an incident investigation at an extractive site
19522	Undertake job safety analysis
28983	Carry out the risk management process at an extractive site
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
Or	
	Explain legislation related to health and safety, and supporting documents, applicable to
28742	an extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support
29553	Demonstrate operational knowledge of New Zealand's Coordinated Incident
	Management System functions and structure
29554	Apply operational knowledge of New Zealand's Coordinated Incident Management
	System
32158	Demonstrate basic knowledge of New Zealand's Coordinated Incident Management
	System
30905	Demonstrate knowledge of the Underground Mines Emergency Protocol
26855	Analyse Human Factors present in workplace practices at an extractive site

Schedule 20 Mine surveyor unit standards

Unit No	Title
17696	Describe and apply basic skills and knowledge required to work at a surface extraction
	site
29087	Survey and produce statutory mine plans
21629	Evaluate plans to manage old workings and inundations at extractive sites
15665	Demonstrate knowledge of geology and geotechnical features and failures for surface
	extraction
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
Or	
	Explain legislation related to health and safety, and supporting documents, applicable to
28742	an extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support

Schedule 21 Ventilation officer unit standards

Unit No	Title
7146	Demonstrate basic knowledge and ability required to work in an underground operation
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
17691	Use mathematics to solve problems in an extractive industries workplace
17744	Read and interpret extractive site plans
21821	Maintain and install services for an underground operation
7142	Demonstrate knowledge of the application of regulatory requirements to manage an
	extractive site
Or	
	Explain legislation related to health and safety, and supporting documents, applicable to
28742	an extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support

Schedule 22 Winding engine driver unit standards

Unit No	Title
23648	Demonstrate knowledge of and follow safe working practices at an extraction site
7164	Describe and operate a winding engine in an underground extractive site
6400	Manage first aid in an emergency situation
6401	Provide first aid
6402	Provide basic life support

Schedule 23 CPD activities

Part 1 Unrestricted activities

1 No limit on hours claimed for certain types of CPD activities

There is no limit on the number of CPD hours that may be claimed for relevant activities of the following type:

Attending industry events

(a) industry seminars, workshops, and training:

- (b) conference workshops run by industry or related organisations:
- (c) industry representative meetings (for example, advisory groups, industry or specialist boards, technical committees):
- (d) membership of panel of examiners:

Receiving training

- (e) fulfilling all requirements and completing formal training courses or tertiary qualifications including degrees and industry training qualifications:
- (f) receiving the following types of training:
 - (i) training by equipment manufacturers including simulator training:
 - (ii) relevant webinars:

(iii)in-house training:

(iv)first aid certificate training:

Delivering training

- (g) delivering the following types of training (including reasonable preparation time):
 - (i) industry seminars, training or workshops:
 - (ii) in-house training:

Presentations and publications

- (h) presenting at a relevant industry conference (including reasonable preparation time):
- (i) publication of articles in relevant industry magazines, journals or similar:

Improvement of bespoke equipment or installations

(j) the design, construction, improvement or significant overhaul of bespoke equipment or installations:

Development or review of critical health and safety documents

- (k) the development or formal review of critical health and safety documents associated with health and safety management systems including:
 - (i) principal hazard management plans:
 - (ii) principal control plans:

(iii)health and safety policies:

(iv)standard operating procedures:

Participation in formal activities

- (l) participation in the following types of formal activities:
 - (i) facilitated risk assessments:
 - (ii) incident investigations that use a recognised analysis process:
 - (iii)emergency exercises:

Field trips

(m)field trips that are relevant to the holder's certificate of competence and result in significant learning:

Other activities where new knowledge or skills are acquired

(n) participation in any other activity within the areas of learning where the holder has gained new knowledge or skills relevant to their certificate of competence.

Part 2 Restricted activities

2 Attending relevant industry conferences

- (1) The maximum number of CPD hours that a holder can claim for attending an industry conference is 4 hours per conference.
- (2) The conference must be relevant to the holder's certificate of competence.
- (3) Attendance at conference workshops is an unrestricted activity, and time spent attending such workshops should not be counted under this clause if it has been counted as an unrestricted activity.
- (4) There is no limit on the number of conferences a holder can claim for during the fiveyear period.

3 Other restricted CPD activities

- (1) The maximum number of CPD hours that can be claimed over the five-year period for any activity or combination of activities covered by this clause is:
 - (a) 20 hours for holders required to complete 120 hours:
 - (b) 10 hours for holders required to complete 60 hours:

- (c) 5 hours for holders required to complete 30 or 40 hours.
- (2) The activities covered by this clause are:
 - (a) formal one on one mentoring with a structured programme of meetings:
 - (b) listening to relevant podcasts:
 - (c) participation in health and safety committee meetings where outcomes are documented in meeting minutes:
 - (d) reading relevant publications (for example, technical articles, technical publications, conference papers).

Made at Wellington on .

Hon Michael Wood Minister for Workplace Relations and Safety

Date of notification in *Gazette*:

This safe work instrument is administered by WorkSafe New Zealand.