

## National Certificate: Mining Operations Underground Coal NQF Level 3

**Introduction:** This qualification is aimed at people who work or intend to work within a coal-mining context and seek recognition for essential skills in coal mining operations. Recipients of this qualification have the knowledge and skills to conduct the essential operations associated with safe mining in any one of the following specialisation areas in underground coalmines:

- Underground coal - Blasting operations,
- Underground coal - Continuous miner operation, or
- Underground coal - Long Wall mining operations.

**Description:**

The qualification is designed to be flexible and accessible so that people are able to demonstrate the competencies required to work safely in an underground coalmine in general and effectively and safely in one of the Blasting, Continuous Mining or Long Wall specialisation areas.

**SAQA Qualification ID: 21812**

<b>Target group:</b> New employees and or existing employees.	<b>Certification:</b>  <b>If competent a competence certificate will be issued by MQA</b>	<b>Duration:</b> 160 Days  Days can be reduced depending on RPL
<b>Entry Level Requirements:</b>  ▪ Minimum Literacy and Numeracy ABET 4 or NQF 1 or RPL, Grade 9		

**Fundamental:** (Could be RPL'd  $\pm 2$  days per unit standard)

- All 36 credits in the Fundamental Component are compulsory.

**Core:**

- All 66 credits in the Core Component are compulsory.

**Elective:** (Could be RPL'd  $\pm 2$  days per unit standard)

- A minimum of 15 credits at Level 2 or above must be selected from the list of elective unit standards that meet site-specific requirements.

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LEVEL	TYPE	CREDITS	U/S	Description
Level 1	Core	2	<a href="#">9615</a>	Conduct visual inspection of flameproof equipment in an underground coal mine
Level 1	Core	8	<a href="#">110217</a>	Demonstrate knowledge and ability to work in an underground coal mine
Level 1	Core	3	<a href="#">15269</a>	Demonstrate knowledge and understanding of basic strata control principles
Level 2	Core	2	<a href="#">116520</a>	Apply safety, health and environmental principles and procedures in a workplace
Level 2	Core	5	<a href="#">9622</a>	Demonstrate an understanding of the prevention of flammable gas ignition through the use of flame proofing in an underground coal mine
Level 2	Core	5	<a href="#">110205</a>	Demonstrate knowledge of the Mine Health and Safety Act, regulations and definitions
Level 2	Core	4	<a href="#">9610</a>	Sound and bar down roof and side walls using sounding and barring equipment in an underground coal mine
Level 2	Core	5	<a href="#">9613</a>	Ventilate a production section to control gases and dust in an underground coal mine
Level 3	Core	5	<a href="#">13912</a>	Apply knowledge of self and team in order to develop a plan to enhance team performance
Level 3	Core	3	<a href="#">9611</a>	Conduct statutory examinations in a production section in an underground coal mine
Level 3	Core	3	<a href="#">9619</a>	Control dust in a production section in an underground coal mine
Level 3	Core	4	<a href="#">13915</a>	Demonstrate knowledge and understanding of HIV/AIDS in a workplace, and its effects on a business sub-sector, own organisation and a specific workplace
Level 3	Core	17	<a href="#">9612</a>	Test, monitor and control the eight common mine gases in an underground coal mine
Level 3	Fundamental	2	<a href="#">9010</a>	Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations
Level 3	Fundamental	4	<a href="#">9013</a>	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts
Level 3	Fundamental	5	<a href="#">8972</a>	Interpret a variety of literary texts
Level 3	Fundamental	5	<a href="#">8969</a>	Interpret and use information from texts
Level 3	Fundamental	5	<a href="#">9012</a>	Investigate life and work related problems using data and probabilities
Level 3	Fundamental	5	<a href="#">8973</a>	Use language and communication in occupational learning programmes
Level 3	Fundamental	5	<a href="#">7456</a>	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues
Level 3	Fundamental	5	<a href="#">8970</a>	Write texts for a range of communicative contexts
Level 1	Elective	3	<a href="#">15277</a>	Deliver compressed air using a mobile compressor in an underground coal mine
Level 1	Elective	3	<a href="#">9614</a>	Feed and break coal using a feeder breaker in an underground coal mine
Level 1	Elective	1	<a href="#">15276</a>	Install a ventilation curtain in an underground coal mine
Level 1	Elective	2	<a href="#">15262</a>	Operate a belt conveyor unit to convey coal in an underground coal mine
Level 1	Elective	3	<a href="#">15303</a>	Pump water using pumping equipment in an underground coal mine
Level 1	Elective	3	<a href="#">15255</a>	Support roof using hydraulic chock shield in a wall mining section in underground coal mine
Level 1	Elective	2	<a href="#">15282</a>	Support roof using mine pole support in an underground coal mine
Level 2	Elective	8	<a href="#">15291</a>	Apply stone dust using stone dusting equipment in an underground coal mine

Level 2	Elective	13	<a href="#">9623</a>	Cut coal face using a universal type coal cutter in an underground coal mine
Level 2	Elective	4	<a href="#">9618</a>	Cut coal face using an arc wall type coal cutter in an underground coal mine
Level 2	Elective	4	<a href="#">9694</a>	Drill holes by means of a hand-held rock drill machine
Level 2	Elective	4	<a href="#">9617</a>	Drill work face using hand held drilling equipment in an underground coal mine
Level 2	Elective	8	<a href="#">9616</a>	Drill work face using self propelled drilling equipment in an underground coal mine
Level 2	Elective	7	<a href="#">15289</a>	Load coal using a gathering arm loader in an underground coal mine
Level 2	Elective	13	<a href="#">15339</a>	Place and operate an auxiliary fan in an underground coal mine
Level 2	Elective	15	<a href="#">15334</a>	Supervise the installation and operation of a belt conveyor in an underground coal mine
Level 2	Elective	13	<a href="#">9609</a>	Support roof using a roofbolter in an underground coal mine
Level 2	Elective	8	<a href="#">15259</a>	Transport coal using shuttle-mining equipment in an underground coal mine
Level 2	Elective	12	<a href="#">15332</a>	Transport personnel, material or equipment using approved self-propelled mobile machines in an underground coal mine
Level 3	Elective	11	<a href="#">15335</a>	Charge up a work face for blasting in an underground coal mine
Level 3	Elective	11	<a href="#">110210</a>	Conduct blasting operations in an underground coal mine
Level 3	Elective	15	<a href="#">110125</a>	Control operations in a blasting section in an underground coal mine
Level 3	Elective	8	<a href="#">9621</a>	Control operations in a continuous miner section in an underground coal mine
Level 3	Elective	12	<a href="#">15331</a>	Control operations in a wall section in an underground coal mine
Level 3	Elective	28	<a href="#">9607</a>	Cut and load a coal face using continuous mining equipment in an underground coal mine
Level 3	Elective	6	<a href="#">110130</a>	Treat misfires and sockets in an underground coal mine