

COURSE: Blasting Certificate of Competency Full Time Course

BLASTING CERTIFICATES OF COMPETENCY

The Blasting Certificates of Competency [BCC] is a licence to practice that is issued to competent persons who can legally be appointed to perform the duties of a miner or a blaster at a South African mine as stipulated in the Mine Health and Safety Act 29 of 1996 as amended and its regulations.

Scheduled Mines' Blasting Certificate of Competency [SMBCC]

The Scheduled Mines' Blasting Certificates of Competency [SMBCC] are licences issued to competent persons who can legally be appointed to perform the duties of a miner or a blaster at a fiery mine in South African as stipulated in the Mine Health and Safety Act 29 of 1996 as amended and its regulations.

DMRE entry Requirements:

- ✓ 400 Underground shifts of which 75 must be on the working face, signed off by the Mine Manager.
- ✓ Competency A
- ✓ First aid certificate
- ✓ Record of service
- ✓ Letter from manager (Letter of sobriety)
- ✓ Proof of blasting ticket training (Certificate), which we will supply, once you have completed your course.

Once the abovementioned have been completed, the delegate will apply to the DMRE (by means of submitting DMRE form 370) for acceptance for a blasting certificate.

Once the delegate is prepared for the examination, the delegate will apply to the DMRE (by means of submitting DMRE form 310) for the examination for a blasting certificate.

Course Information:

Duration:

Three months classroom-based training that needs to be complete for us to issue a certificate, which is needed to apply for DMRE examination date.

Cost:

R 60 000.00 full course which includes learning materials
Or R20 000.00 paid in advance each month (Total 3 months)

Accommodation

If required, for client's cost

Venue:

Rustenburg area

Dates of course

As per annual course schedule

Course documents and POE.

All required learning materials, handouts, and required DMRE application documents will be supplied. Stationary will be for the learner's account.

Course content

BLASTING CERTIFICATE FOR SCHEDULED MINES

This syllabus includes the relevant provisions of the Mine Health and Safety Act, 1996 (Act 29 of 1996) as

amended and the regulations under the Minerals Act, 1991 (Act 50 of 1991) still in force in terms of schedule 4 of the Mine Health and Safety Act, 1996 (Act 29 of 1996) as amended.

1 VENTILATION, DUST PREVENTION AND GASES

1.1 VENTILATION

- 1.1.1 Reasons why underground working places must be ventilated
- 1.1.2 Methods of ventilating underground working places
- 1.1.3 Corrective measures in case of ventilation deterioration/failure
- 1.1.4 Legal requirements
- 1.1.5 Basic ventilation layouts in terms of underground working places
- 1.1.6 Measurement of thermal conditions in the working place

1.2 DUST PREVENTION

- 1.2.1 Causes of dust in underground working places.
- 1.2.2 Measures to prevent/minimize the appearance of dust in mine air.
- 1.2.3 Legal requirements

1.3 GASES

- 1.3.1 Hydrogen
- 1.3.2 Nitrous Fumes
- 1.3.3 Methane
- 1.3.4 Carbon Dioxide
- 1.3.5 Carbon Monoxide
- 1.3.6 Hydrogen Sulphide
- 1.3.7 Hydrocyanic Acid Gas
- 1.3.8 Oxygen

2 MINING PRACTICES

2.1 ROCK MECHANICS

- 2.1.1 Basic terminology and definitions
- 2.1.2 Types of fracturing
- 2.1.3 Strata Control
- 2.1.4 Pre-conditioning

2.2 BREAKING OF GROUND

- 2.2.1 Support (Stopes and Development)
- 2.2.2 Remnants
- 2.2.3 Drilling (Stopes and Development)
- 2.2.4 Cleaning (Stopes and Development)
- 2.2.5 Emergency Procedures
- 2.2.6 Duties of a Miner
- 2.2.7 Duties of Competent "A" person
- 2.2.8 Legal Requirements

3 EXPLOSIVES

3.1 BLASTING

- 3.1.1 Explosives
- 3.1.2 Holes to be blasted
- 3.1.3 Sockets
- 3.1.4 Misfires
- 3.1.5 Obstructions in box holes

3.2 DUTIES OF MINER/GANGER

3.3 DUTIES OF A COMPETENT "A" PERSON

3.4 DUTIES OF A BLASTING ASSISTANT

INSTRUCTIONS

Apply to DMRE for acceptance (DMRE 374 form)

1. Refer to the attached payment options and submit original proof of payment for R250,00 with this application.
 2. The applicant is required to apply in the Region established by the Minister of Mineral Resources and Energy (DMRE) in terms of section 47(2) of Mine Health and Safety Act, where the mine falls under its jurisdiction.
 3. DMRE Regional office contact details are attached.
 4. Telephonic enquiries can be directed to the Regional office of the DMRE where the mine falls under its jurisdiction.
 5. The following originally certified copies from the South African Police Service (SAPS) not older than six (6) months must be attached to this application and arranged in the following order:
 - ✓ Identity Document or Passport
 - ✓ Academic Qualification (Standard 8, or Grade 10, or N1 Certificate provided that N1 Certificate Holders have 6 subjects to their credit, or ABET Level 3 certificate or equivalent)
 - ✓ First Aid Certificate recognized in terms of Minerals Act, Regulation 24.7, in force in terms of schedule 4 of the Mine Health and Safety Act, 1996 (Act No. 29 of 1996), as amended.
 - ✓ Certificate of Fitness to perform work at a mine issued by the Occupational Medical Practitioner (OMP) appointed in terms of section 13(3)(a)(i) of the Mine Health and Safety Act, 1996, as amended.
 - ✓ Record of shifts on mine's letterhead with contact details as proof for qualifying number of shifts (indicating start, end date and the number of shifts per competency/outcome) as required by Minerals Act (MA) Regulation 28.41.3 in force in terms of schedule 4 of the Mine Health and Safety Act, as amended
 6. The application must be endorsed by the Manager appointed in terms of section 3(1)(a) of the Mine Health and Safety Act, 1996, as amended.
 7. The issuing authority may in exceptional circumstances accept an application for Provisional or Permanent Blasting Certificate for Scheduled Mines without the application being endorsed by the Manager appointed in terms of section 3(1)(a) of MHSA.
- NB: Incomplete documents will not be considered and will be returned to the applicant
- ✓ Complete 400 underground shifts of which 75 must be on the working face, filled in record of service, signed off by the Mine Manager.
 - ✓ Complete Competency A
 - ✓ Complete First aid certificate
 - ✓ Obtain Letter of sobriety from manager
 - ✓ Complete blasting ticket classroom training.
 - ✓ Apply to DMRE for acceptance (DMRE 374 form)
 - ✓ Apply to DMRE for examination date (DMRE 302 form)

Apply to DMRE for examination date (DMRE 302 form)

Fees for scheduled Mines Blasting Certificate of Competency Application for Examination: R550.00 Payment Options

OPTION 1

Applicants may pay the required amount at any ABSA Bank, Account Number 406176 9154 and use the examination centre where they will be writing their examination as the reference number.

The reference numbers are as follows:

Eastern Cape Region (Gqeberha & Mthatha): 010 206 26 OT 12
Free State Region (Welkom): 010 193 26 OT 12
Gauteng Region (Braamfontein): 010 099 26 OT 12
Kwa-Zulu Natal Region (Durban): 010 204 26 OT 12
Limpopo Region (Polokwane): 010 201 26 OT 12
Mpumalanga Region (Emalahleni): 010 205 26 OT 12
Northern Cape Region (Kimberley & Springbok): 010 203 26 OT 12
North-West Region (Klerksdorp): 010 191 26 OT 12
North-West Region (Rustenburg): 010 191 26 OT 10
Western Cape Region (Cape Town): 010 207 26 OT 12

The original bank deposit slip must be attached to the application form as proof of payment.

OPTION 2

Applicants may pay the required amount to the cashier at any Regional office of the Department of Mineral Resources & Energy (DMRE).

The cashier must be informed that the payment is for examination purposes. The original cashier receipt must be attached to the application form as proof of payment.

DEPARTMENT OF MINERAL RESOURCES & ENERGY REGIONAL OFFICE CONTACT DETAILS

- ✓ Eastern Cape: (Gqeberha), Private Bag X6076, GQEBERHA, 6000, Tel No: 041 396 3900
- ✓ Eastern Cape: (Mthatha), Private Bag X5252, MTHATHA, 5099, Tel No: 047 532 4465
- ✓ Free State: Private Bag X33, WELKOM, 9460, Tel No: 057 391 1300
- ✓ Gauteng: Private Bag X5, BRAAMFONTEIN, 2017, Tel No: 011 358 9700
- ✓ KwaZulu-Natal: Private Bag X54307, DURBAN, 4000, Tel No: 031 335 9600
- ✓ Limpopo: Private Bag X9467, POLOKWANE, 0700, Tel No: 015 287 4700
- ✓ Mpumalanga: Private Bag X7279, EMALAHLENI, 1035, Tel No: 013 653 0500
- ✓ North-West: (Klerksdorp), Private Bag A1, KLERKSDORP, 2570, Tel No: 018 487 9867
- ✓ North-West: (Rustenburg), P.O Box 150, TLHABANE, 0309, Tel No: 014 594 9240
- ✓ Northern Cape: (Kimberley), Private Bag X6093, KIMBERLEY, 8300, Tel No: 053 807 1700
- ✓ Northern Cape: (Springbok), Private Bag X14, SPRINGBOK, 8240, Tel No: 027 712 8160
- ✓ Western Cape: Private Bag X9, ROGGEBAAI, 8012, Tel No: 021 427 1000