



BLASTING PRACTICES:
XTS_ADM_PAM_0003
SURFACE MINES & QUARRIES

3 DAY SHORT COURSE

Presented by
XTRACT TRAINING SERVICES SA (PTY) LTD
(Accreditation No. 16/MQA/1021/AC4/200622
QCTO Accreditation Number: 07-MQA/SDP210624204436)

DATE: 29 JUNE – 1 JULY 2026

VENUE: Xtract Offices – 64 Boundary Road, Homestead Apple Orchards, Walkerville, Gauteng

COST: R16 964.65 + VAT = R19 509.35 per Delegate Assessment Rates included (The Assessor's Travel and Accommodation will be quoted in once the learner is ready for assessment)

INTRODUCTION

In terms of the Explosives Regulations under the Mine Health and Safety Act, a competent person is required as a blasting assistant.

The competencies required by the Blasting Assistant are:

- safe receipt, storage, issuing and transportation of explosives
- the preparation of primers;
- the charging of blast holes with explosives or the placing of explosive charges;
- the connecting up of blasting rounds or circuits, and
- to assist with the safeguarding of persons against the significant hazards associated with the use of explosives.

WHO SHOULD ATTEND

- Candidates preparing for the Rockbreaking Qualification – Surface Excavations National Certificate Level 3.
- Learner Blasting Assistants

OBJECTIVES

At the end of the programme, participants will be able to:

- Apply safety, health and environmental principles and procedures in a workplace;
- Demonstrate the knowledge of the most common harmful gasses;
- Demonstrate a basic understanding of explosives and accessories;
- Receive, handle, store and issue explosives and accessories;
- Assist in blasting operations;
- Make up primer and charge shot holes;
- Time and connect blast initiation systems in a surface mine;
- Install and maintain an initiating system in a surface mine;
- Perform basic fire fighting.

NOTE: Learners attending the course must have sufficient level of literacy and numeracy.

The on-the-job assessment must be undertaken after successful completion of both this cause and the practical skills coaching and will be at an additional cost.

Limited Seats Available.

**To Register Email: admin3@xtract.co.za or admin-sales@xtract.co.za
or call Lebo Rautsela or Portia Fisher on 010 591 4343 or 071 560 1618**

BLASTING PRACTICES COURSE REGISTRATION FORM

XTS_ADM_FRM_0007

THEORY PART OF THE PROGRAMME – DATES: 29 JUNE – 1 JULY 2026

ASSESSMENT 2 DAYS WHICH WILL BE CONFIRMED WITH THE CLIENT AFTER

COMPLETION OF THE PRACTICALS/WORKPLACE EXPERIENCE

Bookings close on the 17th of JUNE 2026

VENUE: Xtract Offices – 64 Boundary Road, Homestead Apple Orchards, Walkerville, Gauteng

Please complete the form below and return via one of the following means:

- Email: admin3@xtract.co.za or admin-sales@xtract.co.za

Should you require further information, please contact **Lebo Rautsela** or **Portia Fisher** at:
010 591 4343 or 071 560 1618

A. AUTHORISING PERSON: (Supervisor / Manager) – By signing below I agree with terms & conditions.

First Name(s): (in full)		Surname:	
Company/Organisation		Designation:	
Contact Details:	Tel (w):	Postal Address:	
	Cell:		
	Email:		
Signature:		Date:	

B. ACCOUNTS PERSONNEL – By signing below I agree with terms & conditions.

First Name(s): (in full)		Surname:	
Designation:		VAT. No.:	
SDL No.		Order Number:	
Contact Details:	Tel (w):	Postal Address:	
	Cell:		
	Email:		
Signature:		Date:	

C. COSTS:

FEES (Standard): R16 964.65 + VAT = R19 509.35 per delegate

(If cash payment please add R450.00 to the fee to cover bank cash deposit fees)

THE ABOVE FEES IS INCLUSIVE OF THE ASSESSMENT RATES; HOWEVER, WE WILL QUOTE FOR THE ASSESSOR'S TRAVEL AND ACCOMMODATION WHEN THE LEARNER IS READY FOR ASSESSMENT.

BANK DETAILS:

Account holder: Xtract Training Services SA (Pty) Ltd	Account No.: 62878421363 (Business)
Bank: FNB	Branch code: 255355
Branch: My Branch	SWIFT Code: FIRNZAJJ

D. LEARNER DETAILS - By signing below I agree with terms & conditions.

First Name(s): (in full)		Surname:	
Badge Name:		Designation:	
ID No:			
Company/Organisation			
Contact Details:	Tel (w):	Postal Address:	
	Cell:		
	Email:		
Signature:		Date:	

NOTE:

- Learners attending this programme must have sufficient level of literacy and numeracy.
- The on-the-job assessment must be undertaken after successful completion of both the theoretical course and the practicals/workplace experience. This must be done within six (6) months after completion of the theoretical training.
- Payment to be received by the **17th of JUNE 2026**.
- **NO** cancelations after the **17th of JUNE 2026** but substitutions will be accepted up to the **24th of JUNE 2026**.

Service Level Agreement to be completed on the next page.....

SERVICE LEVEL AGREEMENT

(Knowledge/Practical/Work Experience)

XTS_ADM_SLA_0001

BLASTING PRACTICES FOR SURFACE MINES AND QUARRIES (ROCKBREAKING CERTIFICATE – SURFACE EXCAVATIONS)

The Mining Qualifications Authority (MQA) is a tripartite statutory body established by the Mine Health & Safety Act of 1996 and registered by the Minister of Labour as a Sector Education & Training Authority (SETA), in terms of the Skills Development Act of 1998.

The MQA has also been delegated quality assurance functions in terms of section 261(2) of the Skills Development Amendment Act (SDA) 37 of 2008 and the Quality Council for Trades and Occupations (QCTO) delegation policy of 11 June 2011.

The MQA in turn has to ensure that its Accredited Training Providers maintain the quality of standard qualifications and learning provision.

According to the new QCTO requirements, an occupational qualification represents a planned combination of learning outcomes which is intended to provide qualifying learners with the applied competence to practice an occupation and to provide a basis for further learning.

Occupational qualifications, developed under the auspices of QCTO contain three components for completion prior to assessment for final competence. These are:

- **Knowledge component**

This is provided in the 3 day theoretical short course presented by Xtract Training Services SA (Pty) Ltd plus relevant self-study from notes provided and local site procedures.

- **Skills component**

Xtract Training Services SA (Pty) Ltd can supply Subject Matter Experts to provide “on-the-job” training if required. This, however, would not be cost effective for our clients, the majority of whom already have suitable, long experienced people to act as Mentors/Supervisors for the learners.

Skills Development and formal mentoring schemes should be the target of every responsible employer and it is anticipated that the Client will nominate a Mentor/Supervisor to assist a learner in obtaining the necessary practical experience prior to “on-the-job” assessment.

To this end Xtract Training Services SA (Pty) Ltd provides a Logbook which guides the Learner and Mentor/Supervisor through the required skills implementation for the Skills Programme or Qualification. The Mentor/Supervisor will need to ensure that the Learner puts into practice the knowledge that he/she has obtained and guide the Learner as per Client’s mentorship programme.

It will be necessary to document the learner’s progress including reports from Mentors/Supervisors. This will form part of the Learner’s Portfolio of Evidence for final assessment.

- **Work experience component**

This component will also be gained in the workplace and signed off by the Supervisor prior to assessment. Previous relevant experience, prior to the commencement of formal training, will also be accepted as long as it has been documented.

MQA requires that a Service Level Agreement is signed prior to commencement of training confirming that the site employing the learner applying for training can be used for training and/or education and/or assessment and that this learning site is 'fit for purpose'.

By signing below, the Employer, agrees that the Learner will be provided with the support of his/her employer to complete the on-the-job training explained above.

Name of Organisation	Print company name		
Supervisor/Manager:	Print full names & Surname		
Signature:		Date:	
Email:			

By signing below, the Learner accepts full responsibility to complete the on-the-job training explained above. The learner will be given up to six months (6) in which he/she must complete the workplace experience.

- PLEASE NOTE THAT IF THE LEARNER DOES NOT COMPLETE THE TRAINING IN THE SIX (6) MONTH PERIOD, HE/SHE MUST ARRANGE FOR THE ASSESSMENT AT THEIR OWN EXPENSE.**

Name of Organisation	Print company name		
Learner:	Print full names & Surname		
Signature:		Date:	
Email:			

By signing below, the Provider, agrees that the Learner will be provided with the knowledge component as part of achieving the Blasting Program towards Rockbreaking Certificate – Surface Excavations.

Name of Provider	XTRACT TRAINING SERVICES SA (PTY) LTD		
Name of Representative:	Print full names & Surname		
Signature:		Date:	
Email:			

LESSON PLAN/COURSE SCHEDULE

XTS_ADM_LP_0003

BLASTING PRACTICES FOR SURFACE MINES AND QUARRIES (ROCKBREAKING CERTIFICATE – SURFACE EXCAVATIONS)

(The course will be presented in English and written assignments will also be in English)

Classroom / Theoretical Training

Sequence	Activity	Duration	Time
Day 1	Refreshments	1 hour	07:00 – 08:00
	Registration, Administration & Course Objectives	30 minutes	08:00 – 08:30
	Break	10 minutes	08:30 – 08:40
	Presentation 1/Unit Standard 1: Explain emergency preparedness and response procedures. (3 credits) <ul style="list-style-type: none"> Explaining different types of emergencies that may be encountered in a workplace Explaining various responses to an alarm Explaining actions required of a safety officer in an assembly area Explaining the functions of an emergency control center 	1 hour 20 minutes	08:40 – 10:00
	Tea Break	15 minutes	10:00 – 10:15
	Criterion Test 1	30 minutes	10:15 – 10:45
	Presentation 2/Unit Standard 2: Prepare and mark off work area for drilling. (3 credits) <ul style="list-style-type: none"> Demonstrate knowledge and understanding regarding marking off a work area for drilling Prepare to mark off drill holes Marking off drill holes Complete the duties pertaining to the marking off of drill holes	1 hour 15 minutes	10:45 – 12:00
	Criterion Test 2	30 minutes	12:00 – 12:30
	Lunch	1 hour	12:30 – 13:30
	Presentation 3/Unit Standard 3: Drill small diameter blastholes using a percussion drilling rig and compressor. (5 credits) <ul style="list-style-type: none"> Demonstrate a basic understanding of small diameter blasthole drilling Prepare to drill small diameter blastholes Drill small diameter blastholes Finalize drilling operations 	1 hour 15 minutes	13:30 – 14:45

	Tea Break	15 minutes	14:45 – 15:00
	Criterion Test 3	30 minutes	15:00 – 15:30
	Wrap-up and closure	15 minutes	15:30 – 15:45
Day 2	Refreshments	1 hour	07:00 – 08:00
	Presentation 4/Unit Standards 4: Co-ordinate drilling and blasting operations. (10 credits) <ul style="list-style-type: none"> • Monitor compliance to drilling and blasting plan • Evaluate blasting techniques and options • Select appropriate blasting techniques • Adhere to safe blasting procedures 	1 hour 30 minutes	08:00 – 09:30
	Criterion 4	30 minutes	09:30 – 10:00
	Tea Break	15 minutes	10:00 – 10:15
	Presentation 5/Unit Standard 5: Carry out secondary breaking using explosives in surface excavations. (11 credits) <ul style="list-style-type: none"> • Demonstrate an understanding of secondary breaking • Prepare for secondary blasting • Conduct secondary blasting operations • Carry out post blast procedures 	1 hour 45 minutes	10:15 – 12:00
	Criterion Test 5	30 minutes	12:00 – 12:30
	Lunch Break	1 hour	12:30 – 13:30
	Presentation 6/Unit Standard 6: Blast materials in Surface excavations (15 credits) <ul style="list-style-type: none"> • Demonstrate an understanding of blasting operations in Surface excavations • Prepare for quarry blasting • Charge up and initiate the blast • Treat and blast misfires • Destroy old explosives • Conduct post-blasting operations 	1 hour 30 minutes	13:30 – 15:00
	Tea Break	15 minutes	15:00 – 15:15
	Criterion Test 6	30 minutes	15:15 – 15:45
	Presentation 7/Unit Standard 7: Read and interpret surface excavation plans. (2 Credits) Part 1 <ul style="list-style-type: none"> • Understand the plan and layout features • Interpret plans • Record data on plans • Demonstrate a basic understanding of surveying 	30 minutes	15:45 – 16:15
	Practical Task/Group Work	30 minutes	16:15 – 16:45

Day 3	Refreshments	1 hour	07:00 – 08:00
	Presentation 7/Unit Standard 7: Read and interpret surface excavation plans. (2 Credits) Part 2 <ul style="list-style-type: none"> • Perform basic surveying tasks • Transfer data for mine plans into the field • Perform/conduct basic/relevant calculations Face profiling	1 hour	08:00 – 09:00
	Criterion Test 7	30 minutes	09:00 – 09:30
	Tea Break	15 minutes	09:30 – 09:45
	Presentation 8/Unit Standard 8: Design blasts for surface excavations. (24 credits) Part 1 <ul style="list-style-type: none"> • Mine Health & Safety Act – Chapter 4 • Transportation & Storage of Explosives • Product Identification • Factors influencing the choice of explosives • Drilling • Blast Design 	1 hour	09:45 – 10:45
	Practical Task/Group Work	30 minutes	10:45 – 11:15
	Presentation 8/Unit Standard 8: Design blasts for surface excavations. (24 credits) Part 2 <ul style="list-style-type: none"> • Pre-Split Design • Environmental effects of blasting • Blast Monitoring • Complete the duties pertaining to the marking off of drill holes 	45 minutes	11:15 – 12:00
	Lunch	1 hour	12:00 – 13:00
	Criterion Test 8	30 minutes	13:00 – 13:30
	Conduct practical exercises and blast design calculations	45 minutes	13:30 – 14:15
	Tea Break	15 minutes	14:15 – 14:30
	DMR Plan and Preparation	1 hours	14:30 – 15:30
	Questions and Answers Session/Closure	30 minutes	15:30 – 16:00