



PROSPECTUS

Introduction to CTC



The Colliery Training College (Pty) Ltd. was founded in 1965. Initially CTC was established to cater only for the mining sector, but has diversified and our training programs are now available to all interested parties. We are open to employers as well as the public and individual learners.

CTC follows a modular approach to training with competency based assessments for which learners retain credit. All our training is geared to meet workplace demands. Our workshops and training rooms are staffed with skilled training officers in their various areas of expertise. CTC is accredited by the Mining Qualifications Authority (MQA) and the Quality Council for Trades and Occupations (QCTO). A Memorandum of Understanding exists between CTC and relevant SETAs.

Vision Statement

Working in partnership and in accordance with employers' requirements to develop and maintain the highest standard of training and rescue drill preparedness.

Mission Statement

To meet the technical training requirements of customer partners through:

- Consultation and liaison with them, regulators and other stakeholders regarding the training needs and standards required.
- Ensuring that our activities are executed in accordance with the requirements of ISO 9001:2015 and ISO 45001:2018.
- Ensuring effective training delivery, focusing on safety, costs and methodology.
- Promoting diversity, employment equity, black economic empowerment and staff development.

Facilities and services at CTC

Accommodation

Affordable shared accommodation, meals and sporting facilities are available at CTC for all mining, engineering, mineral processing and private students that receive training at CTC. Friendly staff and good food is part of your package. We also have 24-hour security at our premises. Accommodation is available at our two hostels Durain and Clarain.

Durain

Durain is located on CTC's main campus with space to accommodate 203 students, in shared rooms and bathroom. There is a dining room for meals and a television room with selected DSTV channels. Because every student is important we have the following available for the health and wellbeing:

- Tennis
- Swimming Pool
- Darts and board available on request at office
- Table tennis

Clarain

Clarain is located in Reyno Ridge, with transport daily to and from CTC. Clarain accommodates 146 students. There is a shared dining room and television room with selected DSTV channels, as well as 24 hour security on the premises. Even being away from our main campus comes with the benefits of having the following available for relaxation:

- Swimming pool
- Squash court
- Darts and board available on request at office
- Table tennis



(See more details in Section F.

Engineering Skills training

Fee (Including VAT)

A. Summary of Engineering Apprentice Training Route (2022)

Duration (Full

| below) | Time) | (Also see Section D) | |
|---------------------------------|------------------|----------------------------------|-----------------------|
| 1. Start with one of our S | hort Courses | : Give your apprenticeship a | jump-start with the |
| following short courses. You | will be issued v | with a certificate of completion | on and retain credit |
| towards your full qualification | as an artisan by | attending these short courses. | You will also receive |

towards your full qualification as an artisan by attending these short courses. You will also receive a discount on the Basic or Advanced training fees as indicated. You may also select some of the short courses in section B below, retain credit and get discount on your basic or advanced training fee.

Starting Dates

| 1.1. Introduction to | | | R11 427.52 |
|----------------------|-----------|-----------------|----------------|
| the Electrical | 3 Weeks | Please enquire | |
| Trades | | | |
| 1.2. Assistant | 6 Weeks | Please enquire | R21 722.21 |
| Training | o weeks | Please eliquire | |
| 1.3. Serviceman | CMada | Diana annuina | R21 722.21 |
| Training | 6 Weeks | Please enquire | |
| 1.4. Operative | CMada | Diana annuina | R21 722.21 |
| Training | 6 Weeks | Please enquire | |
| 1.5. MQA skills | Tuede | | |
| programme for | Trade | Please enquire | Please enquire |
| Artisan aids | dependant | | |

2. Start with **Basic Training**: (The above-mentioned short courses can give you credit for modules towards basic training) Additional costs to that mentioned below will be: Toolboxes, PPE, Multimeter and Accommodation. Millwright and Fitter and Turner training comprise two blocks of Basic Training. Any fees paid towards 1.1., 1.2 or 1.3. above will be deducted from the fee.

12 Weeks 10 Jan, 4 Apr, 27 Jun & R35 408.74

3. Go on to **Advanced Training**: Any fees paid towards 1.4. above will be deducted from the fee.

12 Weeks 10 Jan, 4 Apr, 27 Jun & R35 408.74 19 Sep

4. Gain on job experience: 12-18 Months if you have a learnership agreement with an employer. If no leanership agreement is in place 3-5 years proven experience with employers are required before a trade test may be attempted. If you are not sponsored by an employer, it will be your own responsibility to secure On Job Training placement. The On Job Training can be commenced before Advanced Training is started, or it can be done entirely after completion of Advanced Training.

12 -18

Months

Determined by

employer

5. Come back for **Final Training and Trade Test**: Requirements: Minimum 4 N2 subjects or matric (Science and maths) or NCV level 3 with 7 subjects above 40%. On the Job Training must be complete and the learner registered at any SETA. Millwright and Fitter and Turner training will be 16 weeks to prepare for trade test.

12 Weeks

10 Jan, 4 Apr, 27 Jun & 19 Sep

R620.07 per day



B. Summary of other Engineering Training courses (2022)

| | Course | Duration (Full Time) | Starting Dates (Also see Section D) | Fee (Including VAT) |
|----------------------------------|--|--|--|--|
| ski | sic Gas Cutting and | Welding: This coured toward any trade e | rse is open to anyone interent enrolled for within one year | ested in acquiring thes |
| bc | discounted from the ba | 2 Days | Please enquire | R3 328.22 |
| wi | | y trade enrolled for w e. | e interested in acquiring b ithin one year; the fee will | then also be discounte |
| | | 2 Days | Please enquire | R3 332.19 |
| Cre | | vard the Rigger trade | one interested in acquiring if enrolled within one year | |
| | | 5 Days | Please enquire | R7 393.11 |
| | | | recommended for qualificy credits toward a trade. | ed electricians or othe |
| | | 2 Weeks | Please enquire | R6 207.30 |
| 10. | | a programmable logi | e interested in a acquiring c controller. Credit will b | e retained toward th |
| Ele | ectrical, Millwright and Ir discounted from the Ba | | s if enrolled within one ye | ar, the ree will then als |
| Ele be | discounted from the Ba | sic Training fee. 3 Days | Please enquire | R4 992.33 |
| Ele | discounted from the Ba | sic Training fee. 3 Days ning: The entry rec | • | R4 992.33 m of 3 months relevan |
| 11. | Gas Testing Train underground experier qualification.) Basic Electronics: | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open a | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in ac | R4 992.33 m of 3 months relevant (No credits toward) R5 935.68 equiring skills associated |
| 11. 12. wir | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry. strumentation trades if e | 3 Days 3 Days 7 The entry reconce in a production 2 Weeks This course is open and the c | Please enquire quirements are a minimun n section of a colliery. Please enquire | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 equiring skills associate ctrical, Millwright and R4 992.33 |
| 11. 12. wir | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry. | 3 Days 3 Days 7 The entry reconce in a production 2 Weeks This course is open and the c | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in acceptained toward the Elector; the fee will then also | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 equiring skills associate ctrical, Millwright and R4 992.33 |
| 11. 12. wir Ins Ba 13. ret | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry strumentation trades if easic Training fee. Advanced Electro | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open and the course follows: This course follows: This course follows: This course follows: Millwright and Ir | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in acceptained toward the Electer; the fee will then also Please enquire lows on the Basic Electron nstrumentation trades if e | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 equiring skills associated ctrical, Millwright and be discounted from the R9 311.60 ics course. Credit will be |
| 11. 12. wir Ins Ba 13. ret | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry strumentation trades if easic Training fee. Advanced Electrotained toward the Electrotained the Electrotained the Electr | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open and the course follows: This course follows: This course follows: This course follows: Millwright and Ir | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in acceptained toward the Electer; the fee will then also Please enquire lows on the Basic Electron nstrumentation trades if e | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 equiring skills associated ctrical, Millwright are be discounted from the R9 311.60 ics course. Credit will be |
| 11. 12. wir Ins Ba 13. ret | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry. Strumentation trades if easic Training fee. Advanced Electrotained toward the Electrotained th | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open and the course following: This course following from the Back and Safety Act for the course following: This Mealth and Safety Act for the course following: The course fo | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in actained toward the Electear; the fee will then also Please enquire lows on the Basic Electron instrumentation trades if election restrumentation trades if electron | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 equiring skills associated ctrical, Millwright and be discounted from the R9 311.60 ics course. Credit will be coursed within one year R6 207.30 gram is a requirement of the requi |
| 11. 12. wir Ins Ba 13. ret the | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry strumentation trades if easic Training fee. Advanced Electrotained toward the Electrotained tow | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open and the course following: This course following from the Back and Safety Act for the course following: This Mealth and Safety Act for the course following: The course fo | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in acceptained toward the Electron ear; the fee will then also Please enquire lows on the Basic Electron estrumentation trades if eacist Training fee. Please enquire MQA Accredited Skills Programmentation of the Electron earth | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 equiring skills associated ctrical, Millwright and be discounted from the R9 311.60 ics course. Credit will be coursed within one year R6 207.30 gram is a requirement of the requi |
| 11. 12. wir Ins Ba 13. ret the | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry. Strumentation trades if easic Training fee. Advanced Electrotained toward the Electrotained to | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open and the course is open and the course is open and the course following the course following. This course following the Barbard from the Barbard fro | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in accetained toward the Electear; the fee will then also Please enquire lows on the Basic Electron nstrumentation trades if ensic Training fee. Please enquire MQA Accredited Skills Program qualified persons performances. | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 requiring skills associated ctrical, Millwright and be discounted from the R9 311.60 resolved within one year R6 207.30 gram is a requirement forming MV switching of R7 293.74 reit as a requirement that |
| 11. 12. wir Ins Ba 13. ret the | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry. Strumentation trades if essic Training fee. Advanced Electrotained toward the Electrotained to | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open and the course is open and the course is open and the course following the course following. This course following the Barbard from the Barbard fro | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in acceptained toward the Electron of the Basic Electron instrumentation trades if ensic Training fee. Please enquire MQA Accredited Skills Programmentation persons perform qualified persons perform the programmentation in the Basic Training fee. Please enquire Please enquire Some mines have | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 requiring skills associated ctrical, Millwright and be discounted from the R9 311.60 respectively within one year R6 207.30 gram is a requirement in the requirement of the R7 293.74 reit as a requirement the |
| 11. 12. wir Ins Ba 13. ret the | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry. Strumentation trades if easic Training fee. Advanced Electrotained toward the Electrotained toward the Electrotained toward the Electrotained toward the Mines Hemines. (No credits toward qualification) Flameproof: For | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open and the course is open and the course is open and the course following the cours | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in acceptance to the fee will then also Please enquire lows on the Basic Electron instrumentation trades if easic Training fee. Please enquire MQA Accredited Skills Programmentation persons perform qualified persons perform the programmentation trades if easic Training fee. Please enquire Please enquire esher): Some mines have switching attend a refres Please enquire earners enrolled CTC from | R4 992.33 m of 3 months relevant (No credits toward R5 935.68 requiring skills associated ctrical, Millwright and be discounted from the R9 311.60 resoluted within one year R6 207.30 gram is a requirement in the requirement in the requirement that her course. (No credit R5 233.48 m Underground Minim |
| 11. 12. wir Ins Ba 13. ret the | Gas Testing Train underground experier qualification.) Basic Electronics: the electronic circuitry. Strumentation trades if easic Training fee. Advanced Electrotained toward the Electrotained toward the Electrotained toward the Electrotained toward the Mines Hemines. (No credits toward qualification) Flameproof: For | sic Training fee. 3 Days ning: The entry reconce in a production 2 Weeks This course is open and the course is open and the course is open and the course following the cours | Please enquire quirements are a minimum n section of a colliery. Please enquire to anyone interested in acceptation and the Electron of the Basic Electro | R4 992.33 m of 3 months relevar (No credits toward R5 935.68 equiring skills associate etrical, Millwright and be discounted from the R9 311.60 ics course. Credit will be prolled within one years R6 207.30 gram is a requirement in the promise arequirement in the process of the course. (No credit R5 233.48 m Underground Minim |

| | | Duration | Starting Dates | |
|-------------|--------|---------------------|---|-----------------------------|
| (| Course | (Full Time) | (Also see Section D) | Fee (Including VAT) |
| will be ret | • | | anyone interested in acquithin one year; the fee will | ~ |
| | | | | |
| | | 2 weeks | Please enquire | R6 207.30 |
| will be ret | | s course is open to | Please enquire anyone interested in acquithin one year; the fee will | uiring these skills. Credit |

C. Training Approach

We have a modular approach to training and try to accommodate client needs as far as possible. Our training covers both theory and practical sessions, with computer based assessments. We train the following trades: Electrician, Fitter / Mechanic Fitter, Rigger Ropeman, Fitter & Turner, Auto Electrician / Transportation Electrician, Instrumentation Mechanician, Millwright, Diesel Mechanic, Earthmoving equipment Mechanic, Plater / Welder / Boilermaker.

Our phases include basic training, advance training and then the final trade test preparation phase. Generally in the basic phase of training, which is 12 weeks, we take the learners through the basics of the chosen trade, including hand tools and basic processes of the trade. The advance training takes them deeper into the more complex methods and requirements of the trade of choice. The final training and preparation is the preparation towards the trade test where they ensure all the building blocks has been covered and that the candidate can complete the trade test successfully based on both the workplace and theory aspects of the trade of choice.

D. Minimum entry requirements

- Grade 12 Maths and Science at least an E symbol
- NCV level 3 or 4, 7 subjects above 40%
- N2 completed with Maths and Science Recommended subjects as required by the trade specifications for trade test acceptance to be completed prior to final stage of training as per table below:

| Rigger | Fitter/Fitter & Turner | Electrician/Auto-Electrician | Instrumentation |
|------------------------------|------------------------------------|---|-------------------------|
| Mathematics | Mathematics | Mathematics | Mathematics |
| Engineering Science | Engineering Science | Engineering Science | Engineering Science |
| Engineering Drawing | Engineering Drawing | Engineering Drawing and or Industrial Electronics | Industrial Electronics |
| Riggers Theory | Fitting & Machining Trade Theory | Electrical or Motor Electrical Trade Theory | Instrument Trade Theory |
| Diesel Mechanic/Earthmoving | | | |
| Equipment Mechanic | <u>Plater/Boilermaker</u> | Millwright | <u>Welder</u> |
| Mathematics | Mathematics | Mathematics | Mathematics |
| Engineering Science | Engineering Science | Engineering Science | Engineering Science |
| Engineering Drawing | Plating & Structural Steel Drawing | Engineering Drawing and or Industrial Electronics | Engineering Drawing |
| Diesel or Motor Trade Theory | Platers' Theory | Electrical Trade Theory | Welder theory |
| | | Fitting & Machining Trade Theory | |

Training dates

| Engineering training | Period (2022) | Training Days | Accommoda tion days | | |
|-----------------------|-----------------|---------------|---------------------|--|--|
| 1st Block | 10 Jan - 1 Apr | 59 days | 83 days | | |
| 2nd Block | 4 Apr – 24 Jun | 54 days | 83 days | | |
| 3 rd Block | 27 Jun – 16 Sep | 58 days | 83 days | | |
| 4th Block | 19 Sep – 9 Dec | 60 days | 83 days | | |

| Millwright | Period (2022) |
|-----------------------|-------------------|
| Training | |
| 1st block | 10 Jan – 29 April |
| 2nd block | 4 Apr – 22 Jul |
| 3 rd block | 27 Jun - 14 Oct |
| | |

E. Registration process

Registration for Basic, Advance or Final Training can take place on-line, in person or via e-mail.

Step 1: Request registration documentation and a quote.

Step 2: **Learners not attached to an employer** is required to pay a 50 % deposit to secure a place. Submit the proof of payment, an I.D. copy, the booking form and the "contract for goods delivered and services rendered" (Annexure A) to CTC. This contract outlines the payment terms and conditions. Once this has been received we will process and confirm your booking. In the case of **learners attached to employers**, the employers will be requested to enter into a service level agreement with CTC. (Proforma available on web site.)

Step 3: Show up on the first day of the training block with all the required documentation and tools.

For short course engineering skills training registration, the candidate/client can register in person or via email, sending the required documentation to us.

Step 1: Request the documentation from us specifying which short course and specific requirement. We can send you a quote to ensure you have the correct information and payment amounts.

Step 2: Learners not attached to an employer is required to pay a 100 % deposit to secure a place. Submit the proof of payment, an I.D. copy, the booking form and the "contract for goods delivered and services rendered" (Annexure A) to CTC. Once we have received, we will process and confirm your booking. In the case of **learners attached to employers**, the employers will be requested to enter into a service level agreement with CTC. (Proforma available on web site.)

Step 3: Show up on the agreed day of the training with all the required documentation and tools.

For trade test preparation ensure that you have met all the entry requirements and have your evidence portfolio signed off before registration then follow the exact same process as for the engineering skills training.

F. Course details

The short course details are as follows:

<u>Introduction to mechanical trades – (4 Weeks)</u> This course is ideally suited for a candidate who would like to know more about mechanical trades and if they would like to determine suitability for the mechanical trades. They cover the basics of all the mechanical trades.

Upon completion of this training the candidate is issued with a certificate of attendance and a module report on the modules completed. Credit will be retained toward the mechanical trades if enrolled within one year; the fee will then also be discounted from the Basic Training fee The candidate has have own P.P.E. but a toolbox can be hired from CTC per day.

<u>Introduction to electrical trades – (3 weeks)</u> This course is ideally suited for a candidate who would like to know more about the electrical trades. It covers a very broad exposure to the electrical trades available to the candidate and assists to determine suitability for the electrical trades as well as specialisation within the field.

Upon completion of this training the candidate is issued with a certificate of attendance and a module report on the modules completed. Credit will be retained toward the Electrical, Millwright and Instrumentation trades if enrolled within one year; the fee will then also be discounted from the Basic Training fee. The candidate has have own P.P.E. but a toolbox can be hired from CTC per day.

Assistant training – (6 Weeks) This course is suited for candidates who have some exposure but no formal training. This training is available in both mechanical and electrical trades. During the time here they are being trained in some of the basic training modules. This is the forerunner for the serviceman training program. Credit retention and discounts apply.

Candidate is required to have own toolbox and P.P.E. Upon completion of this training the candidate is issued with a certificate of attendance and a module report on the modules completed.

Serviceman training – (6 weeks) This course is suited for candidates who have some exposure to their respective trade, but no formal training achieved. The candidate is recommended to have completed the assistant training course prior to this course. After the completion of this course they would have completed a course similar to the basic training in the same trade.

Candidate is required to have own toolbox and P.P.E. Upon completion of this training the candidate is issued with a certificate of attendance and a module report on the modules completed. Credit retention and discounts apply.

<u>Operative training - (6 Weeks)</u> This course is the last segment of training after the candidate has completed the assistant and serviceman training. Ideally suited for someone who has exposure and experience within the trade of their choice. This will complete their training to a large extend on both basic and advance modules in our modular training approach.

Candidate is required to have own toolbox and P.P.E. Upon completion of this training the candidate is issued with a certificate of attendance and a module report on the modules completed. Credit retention and discounts apply.

<u>Gas testing – 2 weeks</u> The entry requirements are a minimum of 3 months relevant underground experience in a production section of a colliery. The application has to be accompanied with a copy of the red ticket and a letter from the employer to confirm experience. This course aligns with the DMR requirements. You will cover the following in the course: Gasses, regulations, underground workshops, ventilation and gas testing practice.

Candidate will be issued with a certificate of competence upon completion of the course. There will also be a practical assessment. Bookings are essential as space is limited.

<u>Flameproof Course – 2 Weeks.</u> The entry requirements for this course entails that you are a qualified artisan in any trade or that you are on a valid learnership/apprenticeship with a company for training completing your basics and advanced training at CTC, includes junior engineers. You will cover some of the following aspects: flameproof enclosures, standards and modification, methane, hydrogen, diesel engines, increase of safety aspects, flameproof termination and electrical lighting, electrical cables and electrical protection of mining equipment.

Candidates will be issued with a certificate of competence upon completion of the course. Bookings are essential as space is limited.

<u>Medium Voltage Course - 5 days with 7-14 weeks on-job-training.</u> The entry requirements for this course entails that you have to be a qualified millwright or electrician with a minimum of 2 year experience. The candidate will be exposed to a week of theory and are then required to do 7-14 weeks of on-the-job training during which they need to complete tasks to log experience. A final theoretical assessment of one day and practical assessment of one day will be conducted at CTC and results to be forwarded to the MQA.

Candidates who have an MQA levy paying employer can register for the MQA skillsprogram in which you received a MQA-certificate of competence which does not expire. Should you not be have an MQA levy payer employer you will still be able to complete the course but you will receive a CTC certificate of competence which expires after 2 years.

This course covers the following aspects: Introduction to medium voltage systems, substations, protection, NERM, ECM, permits, switching, phasing, completion of workbook, pre-assessment, computer and practical assessment.

We also have MV –refresher courses running as per request from our clients. The individual needs to have done the novice course. Duration is 3 days.

Course details on the various full trades offered by CTC

Auto Electrician: Auto-Electricians have the responsibility to overhaul and repair all electrical systems on a vehicle. This also includes maintaining of all systems i.e. headlight adjustment, re-wiring of circuits, setting engine timing, battery maintenance. They also get familiar using portable electric hand tools and test benches. The following modules are done during training:

Basic Training(12 Weeks)

- Principals of basic electricity
- Use electrical testing instruments
- Conductors and cables
- Fault finding on basic electrical circuits
- Remove and mount bearings
- Starter motors
- Alternators
- Ignition system and lights
- Monitoring circuits
- Auxiliary circuits
- Maintain a storage battery

Advance Training(12 Weeks)

- Electronic ignition and fuel injection
- Wiring harness and connectors
- General maintenance
- Diagnosis and testing of electrical systems
- Combined tasks
- Headlight adjustment
- Basic Electronics

<u>Diesel Mechanic/EMEM:</u> (Earth Moving Equipment Mechanic) Diesel mechanics maintain all functions of diesel vehicles, including heavy earthmoving equipment used on opencast mines, etc. The following modules standards are done during training:

Basic Training (12 Weeks)

- Examine bearings
- Tension and align V-belts
- Cut and fit gaskets
- Lift and move equipment
- Start a four-stroke petrol/diesel engine
- Maintain cylinder heads
- Maintain lubrication systems
- Maintain fuel systems
- Maintain cooling systems

Advance Training(12 Weeks)

- Principles of pneumatics
- Principles of hydraulics
- Repair a steering system
- Overhaul a power transmission
- Maintain auto-electrical systems
- Grind valves
- Maintain clutches
- Assemble a differential and final drive
- Tune up an engine fitted with a distributor or in-line fuel system

Electrician: Electricians are responsible for the inspection and maintenance of all types of electrical equipment on machinery, in beneficiation plants and buildings, including offices, hostels, houses, etc. They are also responsible for the distribution of electricity, which includes the laying of cable networks and connection of transformers. The following modules are done during training:

Basic Training(12 Weeks)

• Theory:

Magnetism

Units and prefixes

Ohm- and Kirchoff's laws

• Instruments:

Use of electrical measuring instruments $% \left(\mathbf{r}\right) =\left(\mathbf{r}\right)$

Testing of cables

Determining of the layout of resistance circuits

• Buildings:

Lights and lighting circuits

Stove switching

Thermostatic controls

Construct and wire installations

Testing of single-phase installations

Single-phase motors:

Single-phase motor theory

Testing of single-phase motors

Connecting a single-phase motor

Fully-automatic me

Advance Training(12 Weeks)

- Semi-automatic motor starters
- Fully-automatic motor starters
- Resistance starters connected to slip-ring motors
- Liquid starters connected to slip-ring motors
- Pole changing (two speed) motors
- Direct current machines
- Ward-Leonard speed control
- Energy meters
- Load balancing
- Testing of three-phase installations

Basic Electronics

- Soldering of components
- Identification of resistors, diodes and inductors and the use there-of
- Using an oscilloscope
- Construct rectification circuits

Forward-reverse controlled through a rotary switch and contactors

• Three-phase motors:

Three-phase motor theory
Testing of three-phase motors
Phasing of induction motors
Direct-on-line starters
Forward-reverse starters
Sequence starters
Overhaul a three-phase motor

• Transformers:

Transformer theory Star and Delta connections Connecting transformers for various applications

• Relays:

Reading of electric circuits

Determining of the operation of a circuit from a circuit diagram

Use of retaining circuits

Use of electrical- and mechanical interlocking circuits

• Hand Tools:

Reading of engineering drawings
Use of measuring instruments and
marking off of materials
Using a drilling machine, grinder, welding
machine and oxy-acetylene equipment

- Identify and use Zener diodes
- Construct a voltage doubler
- Identify transistor action and transistor configurations
- Test regulated power supplies
- Test thermistors and thermistor phase control
- Explain and apply PLC operating principles

<u>Fitters and Turners:</u> Fitters and turners manufacture and construct components for machinery and use power operated tools such as lathes, milling- and drilling machines. They are also responsible for the mechanical maintenance of all machinery and the assembling and fitting of new components and equipment. The following modules/unit standards are done during training:

Basic Training(12 Weeks)

- Make and fit a key
- File and saw a workpiece
- Drill and tap holes
- Make up a pipe system
- Overhaul valves
- Maintain and align couplings
- Tension and align V-belts
- Lift and move equipment

Basic Turning (6 weeks)

- Maintain a lathe
- Operate a lathe
- Plan a turning workpiece
- Turn a coupling pin and bush
- Maintain a milling machine
- Plan a milling workpiece
- Mill a keyway and hexagon

Trade test training for Fitters and Turners is 16 weeks as it is a dual trade

Advance Training(12 Weeks)

- Principles of pneumatics
- Principles of hydraulics
- Line up a fluid drive coupling
- Overhaul hydraulic brakes
- Overhaul an electromagnetic brake
- Maintain clutches
- Maintain gearboxes
- Overhaul a multi-stage centrifugal pump

<u>Fitters including Machining:</u> Fitters (including machining) are responsible for the mechanical maintenance of machinery, including the assembling and fitting of new components. They also manufacture and construct components for machinery, using power-operated tools to a small extend, excluding the lathe. The following modules/unit standards are done during training:

Basic Training(12 Weeks)

- Make and fit a key
- File and saw a workpiece
- Drill and tap holes
- Make up a pipe system
- Overhaul valves
- Maintain and align couplings
- Tension and align V-belts
- Lift and move equipment

Advance Training(12 Weeks)

- Principles of pneumatics
- Principles of hydraulics
- Line up a fluid drive coupling
- Overhaul hydraulic brakes
- Overhaul an electromagnetic brake
- Maintain clutches
- Maintain gearboxes
- Overhaul a multi-stage centrifugal pump

Instrumentation: The instrumentation trade has to do with the measurement and control of various process parameters such as temperature, pressure, flow, level etc.

Basic Training(12 Weeks)

- Use Measuring Instruments and Marking Tools
- Convert Units and Prefixes
- Analyse Electrical Units
- Use Digital Multimeter and Analogue Multimeter
- Test a Resistance Box
- Use Electrical Measuring Instruments
- Explain Electro Magnetism
- Select conductors and cables
- Test a low tension cable
- Fit a 15 ampere plug top
- Fit a compression gland
- Fit a gland
- Ioin a cable
- Introduction to Instrumentation
- Signal Transmission
- Pressure Measurement
- Flow Measurement
- Level Measurement
- Temperature Measurement
- Density and Mass Measurement
- Automatic Control
- Final Control Elements
- Principles of pneumatics
- Explain Principles of Flow
- Flow Measurement Electrical Methods
- Process Pressure Sensors
- Pressure Measurement Using a Dead Weight Tester
- Pressure Measurement Using Manometers
- Air Regulators, Filters and Lubricators
- Differential Pressure Measurement Electronic Methods
- Install, Maintain and Calibrate a D/P cell
- Current To Pressure Converter
- Temperature Measurement Resistance Methods

Advance Training(12 Weeks)

- Introduction to Automatic Control
- Interaction between Instruments in a Control Loop
- Fundamental Concepts of Auto Control
- Control Time Elements
- On Off and Proportional Control
- Reset and Derivative Control
- Tune Automatic Controllers
- Programmable Logic Controllers
- Introduction to SCADA Systems
- Cascade Control Loop
- Fibre Optic Theory and Application
- Introduction to Profibus Communication
- The Fieldbus Communication Protocol
- Specialised Network Equipment
- TCP / IP Protocol and IP Addressing
- Workgroup and Domain Network Modules
- Different Server Functions
- Network Troubleshooting
- Adding a Computer To The Network
- Manufacture Network Cables
- Build, Configure and Test a Network
- Electronics (basic and advanced)
- PLC

- Temperature Measurement Thermocouples
- Stroke Control Valves
- Instrument Drawing Symbols
- Density and Mass Measurement

<u>Millwright:</u> Millwrights inspect and maintain all types of electrical equipment on machinery and in beneficiation plants. They are also responsible for the mechanical maintenance of machinery, including the assembling and fitting of new components and equipment. The following modules are done during training:

Basic Training

Electrical Training(12 Weeks)

• Theory:

Magnetism Units and prefixes Ohm- and Kirchoff's laws

• Instruments:

Use of electrical measuring instruments. Testing of cables
Determining of the layout of resistance circuits

• Buildings:

Lights and lighting circuits Construct and wire installations Testing of single phase installations Single phase motors Three phase motors Transformers

Relays:

Reading of electric circuits

Determining of the operation of a circuit from a circuit diagram

Use of retaining circuits

Use of electrical- and mechanical interlocking

Mechanical Training(12 Weeks)

- Make and fit a key
- File and saw a workpiece
- Drill and tap holes
- Overhaul valves
- Maintain and align couplings
- Tension and align V-belts
- Lift and move equipment

Advance Training

Electrical Training (12 Weeks)

- Semi-automatic motor starters.
- Fully-automatic motor starters.
- Resistance starters connected to slip-ring motors.
- Liquid starters connected to slip-ring motors.
- Pole changing (two speed) motors.
- Direct current machines.
- Ward-Leonard speed control.
- Energy meters.
- Load balancing.
- Testing of three-phase installations.

Electronic Training

- Soldering of components.
- Identification of resistors, diodes and inductors and the use there-of.
- Using an oscilloscope.
- Construct rectification circuits.
- Identify and use Zener diodes.
- Construct a voltage doubler.
- Identify transistor action and transistor configurations.
- Test regulated power supplies.
- Test thermistors and thermistor phase control
- Explain and apply PLC operating principles.

Mechanical Training (12 Weeks)

- Principles of pneumatics
- Principles of hydraulics
- Line up a fluid drive coupling
- Overhaul hydraulic brakes
- Overhaul an electromagnetic brake
- Maintain clutches
- Maintain gearboxes
- Overhaul a multi-stage centrifugal pump

Boilermaker: Plater/Boilermakers are responsible for fabrication by means of cutting, bending, rolling and welding different steel profiles into parts for machinery, conveyor systems and underground and surface vehicles. The following modules are done during training:

Basic Training (12 Weeks)

- Make a template
- Fabricate a flat bar bracket
- Fabricate a pipe clamp
- Fabricate a cone
- Develop and fabricate an angled cone
- Fabricate a square angle iron frame
- Develop and fabricate and equal pipe Tpiece

Advance Training (12 Weeks)

- Fabricate a pipe reducer
- Develop an off-set pipe lateral
- Develop a tapering Y-piece
- Develop and fabricate an off-centre chute
- Weld stainless steel
- Weld cold cast iron
- Use TIG welding equipment
- Use MIG welding equipment
- Fabricate a pipe bend
- Examine and repair a chute
- Examine and repair a hopper
- Erect a steel construction
- Service boilers

Welder: As a welder you will cover four welding processes, namely SMAW (Shielded metal arc welding), GMAW (Gas metal arc welding), FCAW (Flux core arc welding) and GTAW (Gas tungsten arc welding). All positions and different metals will be welded according to international standards. At CTC we also use state of the art technology using our "Lincoln Electric Vertex Engage Virtual welding machine" providing endless welding time.

The following training is covered

- Introduction to welding
- Types of welds
- Welding calculations
- Weld plate 2G, 3G, 2F, 4F
- TIG welding
- MIG welding

- Environmental protection
- Welded joints
- Welding inspection and quality
- Weld Pipe 2G, 6G, 5G
- Aluminium weld

Rigger / Ropes Man: are specialists in lifting and moving heavy and difficult to handle loads. The following modules are done during training:

Basic Training(12 Weeks)

- Identify and coil ropes
- Operate oxy-acetylene cutting equipment
- Perform Basic Arc welding
- Whip and seize ropes
- Worm, parcel and serve a rope
- Tie knots and bends
- Tie hitches
- Check and use ladders
- Erect temporary work platforms
- Splice manila rope
- Splice wire rope
- Reeve blocks (1)
- Hints for riggers

Advance Training(12 Weeks)

- Check and maintain lifting equipment and rigging hardware
- Lift and move equipment
- Splice a non-spin wire rope
- Erect and use a tripod
- Erect and use an "A" frame
- Erect and use a raised pole
- Reeve blocks (2)
- Inspect and identify faults in winding ropes
- Prepare a hoist rope test specimen
- Inspect a safety detaching hook
- Examine and use overhead cranes
- Winch a load into a tower

G. Trade test information

There are 2 options to select from for candidates in order to be accepted for trade testing.

- Contracted-Learners: A learner may be employed and registered on an apprenticeship with a
 relevant seta after the institutionalised training has been completed with the training provider. Onjob training is required with a logbook being signed off by the employer in order to apply with the
 relevant seta for approval and acceptance and to be ready for trade testing as a contracted-learner.
 Thereafter the employer may book for the Final training at CTC for the learner.
- 2. **Non-Contracted-Learners: RPL** (Recognition of prior learning experience) testing is a requirement. The **RPL test** will determine the skills gap and **CTC** will recommend a training period for the candidate to close the gaps to be ready for the trade testing A learner who is not registered on a Learnership (apprenticeship) needs to obtain and receive relevant practical skills at a company or mine for a period of 3 years before he / she can apply with the relevant Seta for approval and acceptance for trade testing. These candidates are called **non-contracted learners**. Once approval has been received from the Seta, candidates can book for the **RPL** and final training at **CTC**

Minimum N2 with the relevant subjects per trade required to apply for trade testing with the relevant seta's for both **as indicated in the minimum requirements**

For more information and specific modules/unit standards, please feel free to contact CTC's Engineering Department, 013-692 3122.



Coal Mining & Mineral Processing



A production miner/blaster or mineral processing plant operator supervises the crew, machines and equipment involved in the operation of mining or processing of coal. Just as coal is vital to the future of our country, production miners/blasters and processing plant operators are vital to the future of our coal mining industry. The industry requires these skilled and competent people that are all trained at CTC.

The production miner/blaster or mineral processing plant operators are in charge of underground, opencast, or plant production and are responsible for the health and safety of the employees that are supervised, and for the attainment of set production targets.

Coal mining today is highly mechanised and the production miners/blasters and process operators are responsible for the efficient operation of sophisticated mining machinery.

A. Summary of the Mining and Mineral Processing Training Courses (2022)

| below) | Duration (Full Time) | Starting Dates (Also see Section C.) | Fee (Including VAT) |
|--|--|--|--|
| Short Courses : Give your caree | er as a miner a jumps | tart with one of the follo | wing short courses. |
| Fall of Ground | | | R4 412.01 |
| Competent person A (Underground) | 1 Week | Please enquire | |
| 2. Fall of Ground | | | R8 824.03 |
| Competent person B (Underground) | 2 Weeks | Please enquire | |
| 3. Blasting Assistant (Underground) | 1 Week | Please enquire | R4 412.01 |
| 4. Fall of Ground | | | R6 981.32 |
| Competent Person A (Surface) | 8 Days | Please enquire | |
| 5. Blasting Assistant | | | R6 981.32 |
| (Surface) | 8 Days | Please enquire | |
| 6. Gas Testing Course (Miners) | 10 Days | Please enquire | R5 942.31 |
| 7. Flameproof Course (Miners) | 5 Days | Please enquire | R4 425.27 |
| Miner Basic Training Ur standards required for the bla Certificate is covered. | - | | ed National Rock Breaker |
| | 30 Weeks | Please enquire | R881.07 (per day) |
| 9. Qualification | 5 Days | Please enquire | R881.07 |
| Preparation | | Trease enquire | (per day) |
| 10. Final Assessment | | | |
| (Underground) | 1 Day | Please enquire | R2 788.98 |
| | tificate Training: ate: Rock Breaking: | This course leads to t | he NQF Level 3, MQA d quarries and/or DMR |
| (Underground) 11. Opencast Blasting Cer accredited National Certific Blasting Certificate. Duration | tificate Training: ate: Rock Breaking: | This course leads to t | d quarries and/or DMR |
| (Underground) 11. Opencast Blasting Cer accredited National Certific Blasting Certificate. Duration | tificate Training: ate: Rock Breaking: n 23 Weeks (Full ti 23 Weeks tificate Training: urface mining experi | This course leads to t Surface excavations and ime) including all theory Please enquire | the NQF Level 3, MQA di quarries and/or DMR v, practical training and R881.07 (per day) s route is intended for |
| (Underground) 11. Opencast Blasting Ceraccredited National Certificant Blasting Certificate. Duration assessments. 12. Opencast Blasting Ceral learners with sufficient suffic | tificate Training: ate: Rock Breaking: n 23 Weeks (Full ti 23 Weeks tificate Training: urface mining experi | This course leads to t Surface excavations and ime) including all theory Please enquire | the NQF Level 3, MQA di quarries and/or DMR v, practical training and R881.07 (per day) s route is intended for only for acceptance as a |
| (Underground) 11. Opencast Blasting Ceraccredited National Certificant Blasting Certificate. Duration assessments. 12. Opencast Blasting Ceral learners with sufficient suffic | tificate Training: ate: Rock Breaking: on 23 Weeks (Full ti 23 Weeks rtificate Training: oute. 23 Weeks (Part time) | This course leads to the Surface excavations and ime) including all theory Please enquire (On-site route). This ence. Learners must appropriate the Please enquire | the NQF Level 3, MQA di quarries and/or DMR v, practical training and R881.07 (per day) s route is intended for only for acceptance as a |
| (Underground) 11. Opencast Blasting Ceraccredited National Certification Blasting Certificate. Duration assessments. 12. Opencast Blasting Ceracce learners with sufficient succandidate to train on this result. | tificate Training: ate: Rock Breaking: on 23 Weeks (Full ti 23 Weeks rtificate Training: oute. 23 Weeks (Part time) | This course leads to the Surface excavations and ime) including all theory Please enquire (On-site route). This ence. Learners must appropriate the Please enquire | the NQF Level 3, MQA di quarries and/or DMR v, practical training and R881.07 (per day) s route is intended for only for acceptance as a R45 860.88 |
| (Underground) 11. Opencast Blasting Ceraccedited National Certifical Blasting Certificate. Durational Services Blasting Certificates Blasting Bl | tificate Training: ate: Rock Breaking: an 23 Weeks (Full ti 23 Weeks tificate Training: arface mining experioute. 23 Weeks (Part time) | This course leads to the Surface excavations and ime) including all theory Please enquire (On-site route). This ence. Learners must appropriate the Please enquire | the NQF Level 3, MQA di quarries and/or DMR or practical training and R881.07 (per day) as route is intended for only for acceptance as a R45 860.88 |
| (Underground) 11. Opencast Blasting Ceraccredited National Certification Blasting Certificate. Duration assessments. 12. Opencast Blasting Ceracce learners with sufficient succendidate to train on this result. | tificate Training: ate: Rock Breaking: Ro | This course leads to the Surface excavations and ime) including all theory Please enquire (On-site route). This ence. Learners must appropriate the Please enquire | the NQF Level 3, MQA di quarries and/or DMR or practical training and R881.07 (per day) or soroute is intended for poly for acceptance as a R45 860.88 R1 116.52 R1 846.82 |
| (Underground) 11. Opencast Blasting Ceraccredited National Certification Blasting Certificate. Durational assessments. 12. Opencast Blasting Ceracce learners with sufficient succandidate to train on this result. 13. Mineral Processing Document Blasting Certification on the processing Document Blasting Certificate. Duration assessments. | tificate Training: ate: Rock Breaking: ate: Ate: Ate: Ate: Ate: Ate: Ate: Ate: A | This course leads to the Surface excavations and ime) including all theory Please enquire (On-site route). This ence. Learners must appropriate the Please enquire | the NQF Level 3, MQA di quarries and/or DMR r, practical training and R881.07 (per day) s route is intended for oly for acceptance as a R45 860.88 R1 116.52 R1 846.82 R985.91 |
| (Underground) 11. Opencast Blasting Ceraccredited National Certification Blasting Certificate. Durational assessments. 12. Opencast Blasting Ceracce learners with sufficient succandidate to train on this result. 13. Mineral Processing Document Administration of the Con-job Monoral Processing Document A | tificate Training: ate: Rock Breaking: ate: Ate: Ate: Ate: Ate: Ate: Ate: Ate: A | This course leads to the Surface excavations and ime) including all theory including all theo | the NQF Level 3, MQA di quarries and/or DMR r, practical training and R881.07 (per day) so route is intended for oly for acceptance as a R45 860.88 R1 116.52 R1 846.82 R985.91 R837.04 ospective plant |
| (Underground) 11. Opencast Blasting Ceraccredited National Certific Blasting Certificate. Durational assessments. 12. Opencast Blasting Ceral learners with sufficient succandidate to train on this result. 13. Mineral Processing Document Adv. On-job M. Assessments. | tificate Training: ate: Rock Breaking: ate: Ate: Ate: Ate: Ate: Ate: Ate: Ate: A | This course leads to the Surface excavations and ime) including all theory including all theo | the NQF Level 3, MQA di quarries and/or DMR or practical training and R881.07 (per day) are route is intended for oly for acceptance as a R45 860.88 R1 116.52 R1 846.82 R985.91 R837.04 ospective plant |

15. Advanced Lump Ore Beneficiation Course: This program will be replaced in future by a NQF Level 4 National Certificate. Refer to Advanced Coal preparation section for more information.

4 x 3 week over period of 1 Year

Please enquire

R1 079.82 (per day)

B. Course Details

Minimum Requirements:

<u>Underground & Opencast Mining (Qualification)</u>

DMR Route:

- N2 with a minimum of six (6) subjects
- Abet Level 3
- Grade 10

MQA Route:

• Grade 11 with Mathematics and a first language

Mineral Processing (NQF 2) Grade 10 with Mathematics and literacy.

<u>Underground Basic Training.</u> During the Basic training, all students will complete the core, fundamental and specific modules/unit standards, some of the modules include:

- Elementary mining (Ventilation, dust, etc.)
- Support
- Cutting
- Drilling
- Blasting
- Loading
- Belt Conveyors

Production Training within a production section of the mine

This phase of training takes place in all relevant service departments on the mine where the student is employed, and includes general mining work. At a later stage all the above branch into:

- Blasting Certificate Qualification
- Continuous Miner Qualification
- Longwall Mining Qualification
- On the successful completion of the above Qualifications, the student will also have obtained the following certificates:
- Gas Testing
- Flameproof for supervisors
- Skills Programme Fall of Ground Competent Person "A" (DMR Route)

For more information and specific modules/unit standards, please feel free to contact CTC's Mining Department at Greenside Colliery, 013-691 9933/4/5.

<u>Opencast Blasting Training</u> National certificate: Rock breaking: Surface excavations and quarries and/or DMR Opencast Blasting Certificate.

Duration: 23 Weeks (Full time). This includes all theoretical training, practical training, required shifts (DMR requirement) and assessments.

Skills Programmes:

Competent Person A: Surface Excavations

Blasted

Course Information:

- 8 day course presented at C.T.C that includes theoretical, practical and assessment.
- Legal requirement for a person / employee declaring a work place safe.
- The completion of this skills programme can increase a learner's opportunity for employment and promotion.
- Requirement for a DMR Blasting Certificate.

Blasting Assistant: Surface Excavations

Course Information:

- 8 day course presented at C.T.C that includes theoretical, practical and assessment
- Legal requirement for all persons assisting with blasting operations on a surface excavation.
- The completion of this skills programme can increase a learner's opportunity for employment.

For more information and specific modules/unit standards, please feel free to contact CTC's Opencast Mining Department at 013-692 3121 Ext 270/271.

<u>Mineral Processing</u> The current courses presented at CTC are aimed at mineral processing but are also applicable to other beneficiation processes. Both the Basic and Advanced courses are being presented under the auspices of the South African Coal Processing Society.

<u>Basic Coal Preparation for Plant Operators</u> The course is presented over a period of 7 weeks, 2 days per week for theoretical lecturing, and learners are given the opportunity to complete on-job practical training to complete their work book within this 7 weeks. After the 7 weeks spent for theory, learners are scheduled for practical assessments which is conducted at CTC.

The course is mainly aimed at training plant operators in all basic principles of mineral processing. It provides plant operators with the necessary skills to master all mineral processing techniques in order to meet the various requirements for the utilisation potential of ore.

Advanced Coal Preparation The course is aimed at more senior mineral processing personnel, and provides the student with a wider and more advanced scope regarding Coal Preparation and utilisation in general. It also prepares the student to play a more meaningful role in the management of the ore beneficiation environment. It is presented during four 3-week study schools, over a period of a year. Apart from the final theoretical examination for each study school, the student is required to do a thesis, which is to be presented to a panel of external examiners after completion of all four study schools.

For more information and specific modules/unit standards, please feel free to contact CTC's Mineral Processing Department at 013-692 3121.

C. <u>Training Schedule:</u>

| <u>Course</u> | Start date | Duration | | | | |
|---|------------------|--------------------------|--|--|--|--|
| Mineral Processing: Basic Coal Preparation | 07 Feb – 24 Mar | 7 Weeks | | | | |
| | 25 Apr – 10 Jun | 7 Weeks | | | | |
| | 13 Jun – 29 July | 7 Weeks | | | | |
| | 15 Aug – 30 Sep | 7 Weeks | | | | |
| | 17 Oct – 02 Dec | 7 Weeks | | | | |
| Mineral Processing: Advanced Coal Prep. | 17 January 2022 | 1 Year (4 Study schools) | | | | |

| Underground Blasting Qualification | 17 January 2022 | 29 Weeks (Excl. on job training) |
|--|-------------------|----------------------------------|
| | 07 March 2022 | 29 Weeks (Excl. on job training) |
| | 25 April 2022 | 29 Weeks (Excl. on job training) |
| | 13 June 2022 | 29 Weeks (Excl. on job training) |
| | 01 August 2022 | 29 Weeks (Excl. on job training) |
| | 19 September 2022 | 29 Weeks (Excl. on job training) |
| | 07 November 2022 | 29 Weeks (Excl. on job training) |
| Opencast Blasting Certificate | 22 March 2022 | 23 Weeks |
| | 30 May 2022 | 23 Weeks |
| | 15 August 2022 | 23 Weeks |
| | 24 October 2022 | 23 Weeks |
| Competent Person A: Surface Excavations | 31 January 2022 | 8 Days |
| | 28 February 2022 | 8 Days |
| | 04 April 2022 | 8 Days |
| | 16 May 2022 | 8 Days |
| | 20 June 2022 | 8 Days |
| | 18 July 2022 | 8 Days |
| | 22 August 2022 | 8 Days |
| | 19 September 2022 | 8 Days |
| | 17 October 2022 | 8 Days |
| | 14 November 2022 | 8 Days |
| Blasting Assistant: Surface Excavations | 17 January 2022 | 8 Days |
| | 14 February 2022 | 8 Days |
| | 23 March 2022 | 8 Days |
| | 04 May 2022 | 8 Days |
| | 30 May 2022 | 8 Days |
| | 04 July 2022 | 8 Days |
| | 10 August 2022 | 8 Days |
| | 05 September 2022 | 8 Days |
| | 03 October 2022 | 8 Days |
| | 31 October 2022 | 8 Days |
| | | <u> </u> |

Booking Forms and Contract for Goods Delivered, Price List



COURSE AND ACCOMMODATION BOOKING FORM

INCOMPLETE FORMS WILL NOT BE ACCEPTED AND WILL BE RETURNED.

STUDENT DETAILS:

| SURNAME & INITIALS: | ID N°: | | COMPANY: | |
|---------------------|------------|-----------------|----------|--|
| DESIGNATION: | TELEPHONE: | | FAX: | |
| E-MAIL ADDRESS: | | *SHORT COURSE*: | | |

COURSE INFORMATION

| | | | GEN | DER | | | | TRA | NIN | G COI | JRSE | | | | (| THEF | ₹ | PI | PE | | |
|-------|-----|--------|-----|-----|---|---|-----|-----|-----|-------|--------|---|-----|--------|---|--------|---|----|----|------------|----------|
| | | A | М | F | В | Α | F | Α | S | 0 | G | F | М | * | | М | T | В | 0 | | |
| | (| С | Α | E | Α | D | - 1 | S | E | P | Α | L | E | S | | U | 0 | 0 | V | | |
| | (| С | L | М | S | ٧ | N | S | R | E | S | Α | D | н | | L | 0 | 0 | E | | |
| | | 0 | E | Α | ı | Α | Α | ı | V | R | | М | | 0 | | Т | L | T | R | | |
| | | M | | L | С | N | L | S | | A | T | E | U | R | | 1 | В | S | A | | |
| | | M | | E | | C | _ | T | C | T | E | | М | Т | | M | 0 | | | | |
| | | 0 | | | | E | T | A | E | , , | S | P | ٠,, | | | E | Х | | L | | |
| | | D | | | | | R | N | M | V | ! | R | V | С | | | | | S | | |
| | | A T | | | | | A | ' | N | E | l I | 0 | 0 | O U | | E R | | | | | |
| | | : | | | | | N | | IN | | N G | | - | R | | K | | | | | |
| | | 0 | | | | | l ï | | | | " | ' | A | S | | | | | | | |
| | | N | | | | | N | | | | | | G | E | | | | | | | |
| | | | | | | | G | | | | | | E | * | | | | | | | |
| TRADE | YES | NO | | | | | | | | | | | | | | | | | | START DATE | END DATE |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 1 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | |

PERSON RESPONSIBLE FOR PAYMENT OF INVOICE

| Initials & Surname: | Vat Number: |
|---------------------|----------------------|
| Postal Address: | Residential Address: |
| Telephone: | |
| Fax: | |
| E-Mail: | |

| C.T.C. Banking Details | | | | | | | | |
|------------------------|----------------------|--|--|--|--|--|--|--|
| Bank: | FNB | | | | | | | |
| Account N°: | 58510747266 | | | | | | | |
| Branch: | Klipfontein - 270253 | | | | | | | |
| Type: | Cheque | | | | | | | |

<u>Please send the completed form to:</u> bookings@ctctraining.co.za



Annexure A. Contract for Goods Delivered and Services Rendered

| 1 | This is a contract entered into by Colliery Training College (Pty) Ltd (hereinafter referred to as "the Provider" and {Name of person paying for the training} (hereinafter referred to | | | | | | | | | | | | |
|----|---|---|--|--|--|--|--|--|--|--|--|--|--|
| | "the Client") on this date {Name of person paying for the training, (herematter i | | | | | | | | | | | | |
| 2 | | s corner of Stevenson Street | t and OR Tambo Street, Klipfontein and the | | | | | | | | | | |
| _ | Client's residential address is:- | | . a. | | | | | | | | | | |
| 3 | and Manner of Services." The Pro exchange for consideration descr Scope and Manner of Services. The | ovider hereby agrees to provibed herein under "Paymen ne following goods and servi | ervices and goods described herein under "Scope vide the Client with such goods and services in t for Goods and Services Rendered." ices are to be rendered by the provider: {E.g. | | | | | | | | | | |
| | | | { end date} | | | | | | | | | | |
| 5 | 2. An e.g. Electrician Toolkit as per Payment for Goods and Services | Rendered. | considers would used according to the Developt | | | | | | | | | | |
| | | _ | services rendered according to the Payment and services rendered from the Provider. | | | | | | | | | | |
| | | <u>Date</u> | <u>Amount</u> | | | | | | | | | | |
| | 1. Due date for first amount | Upon registration | R 50% of quote | | | | | | | | | | |
| | 2. Due date for second amou | int | R | | | | | | | | | | |
| | 3. Due date for third amount | | R | | | | | | | | | | |
| | 4. Due date for fourth amou | nt | R | | | | | | | | | | |
| | 5. Due date for fifth amount | | R | | | | | | | | | | |
| | 5.2 Should the Client fail to pay attorneys for collection.5.3 All training records pertaining | the Provider the full amouning to the service rendered a eased to the client until payr | t specified, the account will be handed over to our nd goods delivered remains the property of the ment for services rendered has been made in full. | | | | | | | | | | |
| Fc | or the Provider : | Date: | Place: | | | | | | | | | | |
| | Witness: | | | | | | | | | | | | |
| | For the Client: | Date: | Place: | | | | | | | | | | |
| | Witness: | | | | | | | | | | | | |



Toolbox & Multimeter Prices

In addition to the course fees as stipulate learners may also require toolboxes and multimeters; please enquire about these when asking for a quotation.

Toolbox and Multi-meter prices may escalate due to currency exchange rates that fluctuate

Toolbox Prices 2022

| 2022 | | | lectrical | | <u>Fitter</u> | Pla | ater/Welder | Die | sel/Mech | | Millwright | | Auto Electr | | Rigger | In | strumentation | | Welder |
|------|------------------------|---|-----------|---|---------------|-----|-------------|-----|-----------|---|------------|---|-------------|---|-----------|----|---------------|---|----------|
| 5 | Selling Price Jan 2022 | R | 4 382.04 | R | 7 438.10 | R | 8 565.12 | R | 8 994.90 | R | 8 798.31 | R | 7 180.49 | R | 10 450.00 | R | 7 163.59 | R | 7 106.00 |
| , | VAT | R | 657.31 | R | 1 115.72 | R | 1 284.77 | R | 1 349.24 | R | 1 319.75 | R | 1 077.07 | R | 1 567.50 | R | 1 074.54 | R | 1 065.9 |
| | Total Selling Price | R | 5 039.35 | R | 8 553.82 | R | 9 849.89 | R | 10 344.14 | R | 10 118.06 | R | 8 257.56 | R | 12 017.50 | R | 8 238.13 | R | 8 171.90 |

Multi-Meter Prices 2022

| 2022 | | <u>F</u> | uke 177 Flu | | Fluke 177 IS | | Fluke 179 | <u>F</u> | luke 179 IS | Fluke 28ii IS | | | TBM 252 |
|------|------------------------|----------|-------------|---|--------------|---|-----------|----------|-------------|---------------|-----------|---|----------|
| 1 | New Selling Price 2022 | R | 5 350.40 | R | 6 343.15 | R | 5 674.35 | R | 6 750.70 | R | 13 470.05 | R | 1 459.57 |
| ī | VAT | R | 802.56 | R | 951.47 | R | 851.15 | R | 1 012.61 | R | 2 020.51 | R | 218.94 |
| | Total Selling Price | R | 6 152.96 | R | 7 294.62 | R | 6 525.50 | R | 7 763.31 | R | 15 490.56 | R | 1 678.51 |

This is the way we work at CTC – these are our values:



At CTC we are Passionate about what we do: We are energised by the training solutions we deliver, the challenges we face and the opportunities we create. We are motivated to unlock the potential of our learners for our customer partners.



At CTC we Pull Together: As one team united in purpose, action and spirit, we use the diversity of our people, skills and experiences in our unique and unequalled institution. We harness the strengths of our stakeholders so that we jointly and continually improve the prospects of our learners.



At CTC we trust each other: We deliver on all our commitments; to our customer partners and each other. We are recognised for our exceptional and disciplined delivery of training. We act with openness, honesty and integrity in our relationships with learners, customer partners and suppliers so that these relationships may flourish



At CTC we show that we care: The learners and other people whose futures we touch and the environment we share matter deeply to us. We nurture, develop and celebrate all of these people. We always act with their dignity, safety and health foremost in our minds.



At CTC we Shape the Future: Our facilities and long history makes us the leading skills provider in South Africa. We will constantly redefine how training gets delivered. We set demanding targets, take tough decisions and courageously seeks to achieve them. We insist on excellence and are rewarded accordingly.