

ENGINEERING TRAINING COURSES

A. ENGINEERING CRAFT CERTIFICATE COURSES – 2 YRS 6 MONTHS

- Power Electrical
- Auto Electrical
- Instrumentation
- Rigging
- Metal Fabrication
- Heavy Equipment Repair
- Mechanical Fitting
- Machining
- Automotive Mechanics



B. ENGINEERING SHORT COURSES - 2 TO 10 DAYS

- Heavy Equipment Maintenance & Repair
- Basic Hydraulics
- Advanced Hydraulics
- Basic Pneumatics
- Advanced Pneumatics
- Electro-Pneumatics
- Battery Maintenance
- Basic Rigging
- Chain Block Maintenance
- Scaffolding
- Mobile Crane Operator
- Overhead Crane Operator
- Working at Heights
- Variable Speed Drives
- Electrical Motor Protection
- Transformer
- Substation Operations & Maintenance
- High Tension Cable Joint
- PID CODESYS
- Electrical Safety
- Welding Safety
- Energy Isolation & Lock-out
- Conveyor Belt Operations
- Reliability Centered Maintenance
- Conveyor Belt Maintenance
- Bearing Maintenance
- Valve Maintenance
- Pump Operator



- Fluid Coupling Alignment
- Corrosion Protection
- Gearbox Maintenance
- Advanced Root Cause Analysis
- Winder Maintenance
- Winding Engine Driver

C. SOFT COURSES – 2 TO 5 DAYS

- Technical Report Writing
- Basic Computer Skills
- Basic Supervisory Course
- Advanced Supervisory Course
- Time Management
- Budget Techniques & Financial Planning



Please contact our administration office to receive the Full prospectus for MCTC courses on offer with fees

Contact Details:

Tel: +260 212 441044/443160/441051/443156

Email: mctc.admin@mopani.com.zm



MOPANI CENTRAL TRAINING CENTRE

- Our Vision

A leading Institution in Technical & Vocational Training for developing Zambia and the world at large.

- Mission Statement

To deliver excellence through competency based production and application of contemporary skills-based knowledge and ethos that inspire industry today and tomorrow. .



Mopani Central Training Centre (MCTC) was opened in 2013, is located in the historic mining town of Mufulira in northern Zambia. This state-of-the-art training facility is one of the best mining orientated training facilities now in the world and first in central Africa. Accommodating up to 220 students at any one time. This world-class training centre has both full scale underground and surface simulations so that all theoretical courses are also seen and experienced in practice on site. The training centre also offers long and short term courses in Engineering and Assaying.

To date, thousands of Mopani Copper Mine employees have already benefitted from the training courses offered at MCTC, with this experience and achievements gained, the training centre has grown and able to offer internationally recognized courses to other industries.

Most courses are internationally recognized:

- ❖ Engineering Courses
- ❖ Metallurgical Courses
- ❖ Mining Operations Courses
- ❖ Emergency Mine Rescue Courses

Courses are now open to all industry players and members of the public



MCTC is a TEVETA accredited institution and its qualification is a springboard for future career development

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METALLURGICAL TRAINING COURSES

A. CERTIFICATE IN ASSAYING AND SAMPLING – FULL TIME – 2 YEARS

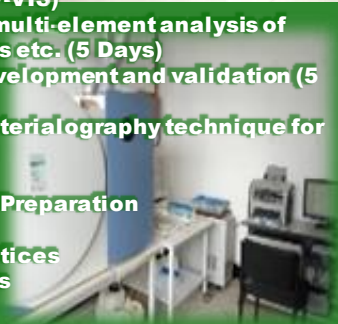
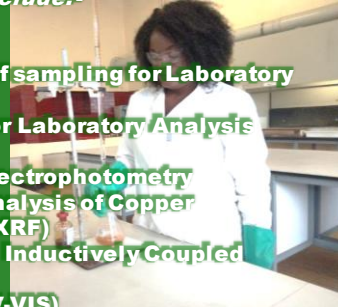
The Programme includes basic theory & practical aspects of laboratory health and safety, sampling, sample preparation and sample analysis.

B. ASSAYING & SAMPLING – SHORT COURSES (5 TO 10 DAYS)

Short Courses on offer include:-

1. Basic principles of:

- Theory and practice of sampling for Laboratory Analysis (10 Days)
 - Sample preparation for Laboratory Analysis (10 Days)
 - Atomic Absorption Spectrophotometry
 - Electro-gravimetric Analysis of Copper
 - X-Ray Fluorescence (XRF)
 - Optical Spectrometry/ Inductively Coupled Plasma (OES/ICP)
 - Ultraviolet Visible (UV-VIS)
 - Fusion technique for multi-element analysis of Ores, Concentrates, Slags etc. (5 Days)
 - Analytical method development and validation (5 Days)
 - Metallography and Materialography technique for copper metal processing
- #### **2. Sources of Errors in:**
- Sampling and sample Preparation
 - Chemical Analysis
- #### **3. Good Laboratory Practices**
- #### **4. Basic Statistical Tools**



MINING TRAINING COURSES

A. GENERIC SAFETY

- General Safety Induction
- Basic Fire Fighting Skills & Radiation
- Safe Mining
- Health & Safety Representative
- Strata Control
- Underground Induction
- Explosives (SASOL or AEL)
- Online Induction (For Management employees only)
- Working at Heights
- Dover Test & Simulators



B. BASIC MINING:

- Cage Tender
- Skip Man
- Crusher Operator
- Pipe & Track Layer
- Timber & Construction (Shaft Timbering)
- Whistle Man



C. MINING OPERATOR:

- Dover Test (Selection)
- Simulators
- Load Haul & Dump – LHD Operator (Manual & Remote Controlled)
- Dump Truck– ADT Operator
- Drill Rig Operator
- Grader Operator
- Rock Breaker Operator
- Utility Vehicle – UV Operator
- Dumper Operator
- Manitou Operator
- Back Hole Operator
- Excavator Operator
- Locomotive Operator
- Forklift Operator
- Cherry Picker Operator
- LDV Operator



D. SUPERVISORY :

- Blasting Licence Holder
- Person-in-Charge
- Section Boss
- Shift Boss
- Mining Engineers Development Course
- Mine Captain

MINE RESCUE COURSES

- Initial Mine Rescue . Advanced Mine Rescue
- Rescue Managers Course . Paramedics
- Emergency Management Course

ADMISSION REQUIREMENTS

CRAFT CERTIFICATE COURSES:

Grade 12 level of education or equivalent with a minimum of three (3) 'O' levels (pass) which must include English, Mathematics and Science.

SHORT COURSES:

Relevant qualifications and experience will be advised based on choice of training program.