

TECHNICAL CURRICULUM · PROSPECTING, EXPLORATION & ARTISANAL MINING · FULL-TIME

GEOLOGY

&

RESOURCE PROSPECTING

A hands-on, full-time programme in geology, prospecting and exploration

Recognise the potential in the geology.

THE PROGRAMME

Spotting resource potential begins with reading the geology. This programme builds exactly that skill, from the outcrop to the first



Geology & Resource Prospecting is a two-year, hands-on, full-time programme in prospecting and exploration.

Across 23 technical modules it moves from the fundamentals (minerals, rocks, structure) through formation and the most important deposit types to prospecting, sampling and assessment.

The focus stays firmly on practice: learning happens at the outcrop, on the hand specimen and on the equipment, with around 1.500 hours of technical learning across four consecutive phases.

Every module concludes with an assessed test piece. One point stays transparent: there is no standalone German apprenticeship in geology, so the exploration core is built deliberately from benchmarks and the literature. The programme is offered as a curriculum, as a matching equipment specification or as a turnkey package for the location.

23

TECHNICAL MODULES

1.200_h

TECHNICAL LEARNING

6

CATEGORIES

+130

ITEMS

2_{years}

FULL-TIME

PRACTICAL CURRICULUM

Twenty-three modules

From minerals, rocks and structure through formation and Africa's most important deposit types to prospecting, sampling, assessment and responsible extraction, ending with the potential assessment of a site.

MODULE

01 – 23 · PARTS A · B · C

01 Introduction & African Perspective

FOUNDATIONS

02 HSE in the Field

FOUNDATIONS

03 Science & Maths Foundations

FOUNDATIONS

04 The Earth as a System

FOUNDATIONS

05 Identifying Minerals

FOUNDATIONS

06 Identifying Rocks

FOUNDATIONS

07 Structural Geology & Compass

DEPOSITS

08 Ore Formation & Metallogeny

DEPOSITS

09 Africa's Deposit Types

DEPOSITS

10 Geological Maps

DEPOSITS

11 Field Prospecting

PROSPECTING

12 Geochemical Prospecting

PROSPECTING

13 Geophysical Prospecting

PROSPECTING

14 Sampling & Drilling

PROSPECTING

15 From Find to Resource

PROSPECTING

16 Surveying & Geoinformatics

APPLYING

17 Extraction Overview

APPLYING

18 Artisanal Mining (ASM)

APPLYING

19 Mineral Processing

APPLYING

20 Environment, Water & Rehabilitation

APPLYING

21 Law & Supply Chains

APPLYING

22 Data & Documentation

APPLYING

23 Capstone: Potential Assessment

COMPLETION

EQUIPMENT

Trained in the field and on the equipment.



01

Field & Outcrop Equipment

Geological compass, hammer, hand lens, GPS and personal protective equipment for fieldwork

02

Identifying Minerals & Rocks

Streak plates, hardness scale, hand lenses and identification aids for hand specimen and laboratory.

03

Surveying & Geoinformatics

GPS and DGPS, total station and basic GIS equipment for field surveying.

04

Prospecting: Geochemistry & Geophysics

Gold pans, portable XRF and instruments for magnetics, radiometrics and geoelectrics.

05

Sampling, Drilling & Core Logging

Pitting and hand-drilling tools, core boxes and logging and sample-preparation materials.

06

Processing, HSE & Documentation

Density separation, scales, safety and documentation equipment for laboratory and field.

+130 POSITIONS · 6 CATEGORIES

BRING THE PROGRAMME TO YOUR LOCATION

LET'S GET STARTED.

AVAILABLE AS • **Turnkey** (Consulting + Equipment + Delivery + Curriculum + Setup)