

# GEO|FICIENT

BRIDGING THE GAP BETWEEN EDUCATION AND EXPERIENCE

## MINERAL EXPLORATION BOOTCAMP | 6 – 10 July 2026



GEOFICIENT - BRIDGING THE GAP BETWEEN EDUCATION AND EXPERIENCE

# COURSE OVERVIEW

**THIS COURSE HAS BEEN DEVELOPED FOR TWO VERY SPECIFIC GROUPS OF PEOPLE:**

1. Geology students eager to gain practical early-stage exploration experience.
2. Recent graduates (BSc, MSc or PhD) and early-career geology professionals with no or little exploration experience in the field.

**The course will run over FIVE DAYS.**

While the course includes academic material, which must be learnt and understood by all participants, the FOCUS throughout will be on the actual APPLICATION OF WHAT HAS BEEN LEARNT IN PRACTICAL SETTINGS.

Knowledge transfer is therefore encouraged between participants as well as through trainers.



# COURSE OUTLINE

This course will further develop your understanding of the critical role that each of the following aspects plays in early-stage greenfields exploration.

## LIST OF MODULES

### 1. HSEC & FIELD AWARENESS

### 2. GPS FIELD NAVIGATION

- Practical Exercise

### 3. COMPASS FIELD USE

- Practical Exercise
- Stereonet workshop

### 4. OVERVIEW OF METHODS IN SURFACE GEOCHEMICAL SAMPLING

- Practical Exercise - Stream sediment sampling
- Practical Exercise - Soil sampling

### 5. GEOCHEMICAL SAMPLING FUNDAMENTALS & QAQC

- pXRF field laboratory workshop

While the course includes academic material, which must be learnt and understood by all participants, the focus throughout will be on the actual application of what has been learnt in practical settings.

Knowledge transfer is therefore encouraged between participants as well as through trainers.

# LEARNING OUTCOMES

**BY THE END OF THIS COURSE, YOU WILL BE ABLE TO:**



Utilize a **COMPASS** and **GPS** for precise **FIELD NAVIGATION**.



Use **STEREONETS** for plotting, analysing and **INTERPRETING FIELD** collected **DATA** to drive real-time exploration decision making.



Plan and execute surface **GEOCHEMICAL SAMPLING SURVEYS** with proper **QA/QC** protocols.



Run a **FIELD pXRF LABORATORY**.



Demonstrate continuous **HSEC AWARENESS** and field **SAFETY PRACTICES**.

# THE ROLE OF EXPLORATION

**THE NEED FOR RESOURCES EXCEEDS CURRENT SUPPLY AND REQUIRES LONG-TERM EFFORTS.**

Thus, **NEW RESOURCES** need to be developed.

- **WHERE** do we find these resources?
- **HOW** do we find these resources?
- How do we continuously **IMPROVE OUR UNDERSTANDING** of these resources?

The answer to all these questions is **MINERAL EXPLORATION.**

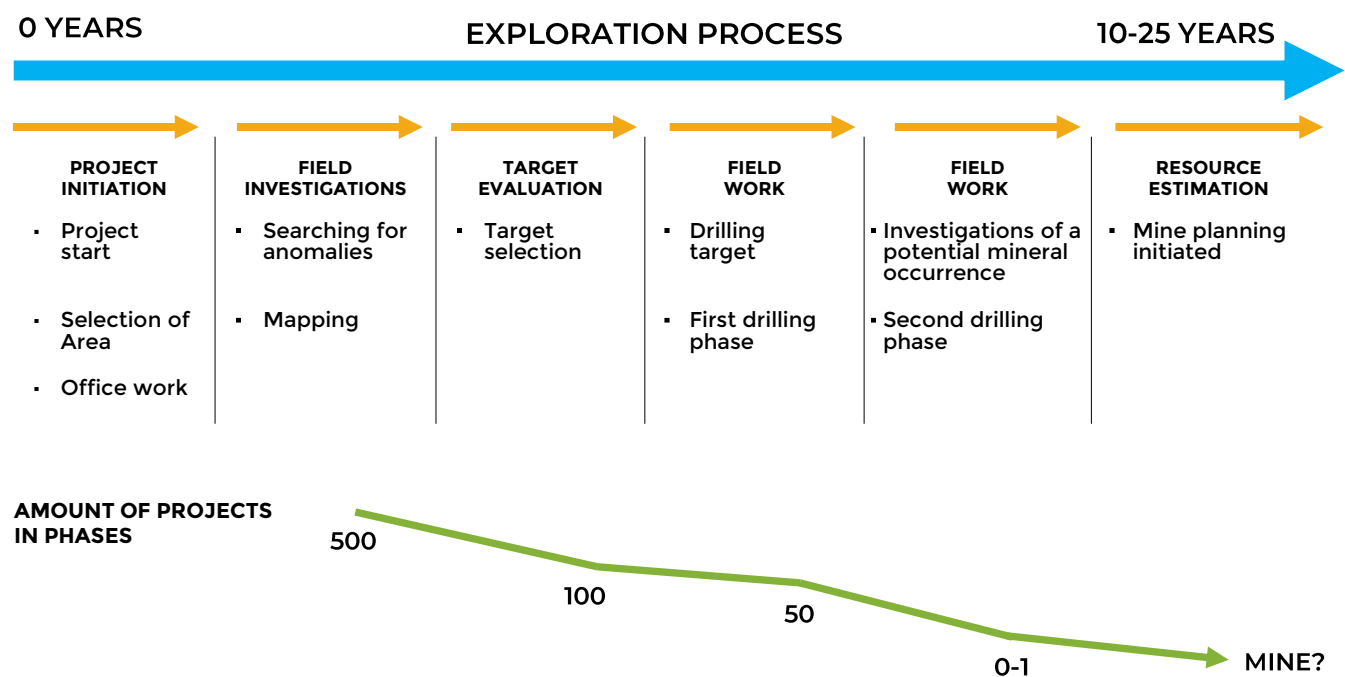


# MINERAL EXPLORATION

The **EXPLORATION PROCESS** is a multi-stage scientific investigation aimed at discovering new natural resources.

Exploration takes a long time, and few projects lead to mines, for any number of reasons, for example;

- The resource is too small or low grade
- Fluctuating commodity cycles
- Stakeholder negotiation difficulty and license disputes
- Even if everything goes as planned, and you manage to find a mineral resource and obtain all the permits, the process can take between 10-25 years.



# MINERAL EXPLORATION CONT.

Since very few projects evolve from concept to mine, it is critical that the exploration team records and compiles accurate **GEOLOGICAL DATA** to ensure a robust geological understanding and interpretation.

As an aspiring exploration geologist, you will partake in various field work components that form the backbone of any **EARLY-STAGE GREENFIELDS** exploration program.

Understanding what field-data you will be collecting and how to **WORK SAFELY** and efficiently is critical to the success of these programs.





# WHY WE NEED MORE BOOTS ON THE GROUND CONT.

- Generative AI and specialised LLM's can automate analysis of large geochemical datasets to accelerate discovery; however, these tools are only as effective as the underlying data.

Poor-quality field data leads to unreliable outputs: garbage in, garbage out.

- Ground-truthing and validation; ensure anomalies align with actual geology, reducing false positives and costly misdirected exploration efforts.

**EXPERIENCED AND COMPETENT FIELD GEOLOGISTS REMAIN ESSENTIAL FOR MAKING NEW DISCOVERIES!**



# QUICK FACTS

## COURSE DURATION

- 5 Days

## COURSE REQUIREMENT

- Honours Degree in Geoscience

## COURSE TARGET AUDIENCE

- Geology students eager to gain practical early-stage exploration experience.
- Recent graduates (BSc, MSc or PhD) and early-career geology professionals with no or little exploration experience in the field

## COURSE LOCATION

- Cederberg, Western Cape

## COURSE PRESENTERS

- RES & Dr. Stephan Dunn

## COURSE FEE

- R 18 000.00

## COURSE RECOGNITION

- GSSA Accredited, &
- SACNASP Accredited

## COURSE GROUP SIZE

- 10 - 12 Participants

## REGISTRATION DEADLINE

- 1 June 2026

## COURSE REGISTRATION

Register at [www.geoficient.co.za](http://www.geoficient.co.za)



# COURSE PRESENTERS



## Dr. Stephan Dunn

Stephan holds a PhD in Economic Geology from Stellenbosch University and has been involved in managing a number of projects across Africa for our clients.

His main interest lies within the exploration for structurally-controlled gold and sediment-hosted stratiform copper deposits. More recently, Stephan has branched into the exploration for critical metals, being involved in brownfields Lithium projects in Madagascar and Rwanda.



RES serves the global mining and exploration industry through the design, execution and analysis of early and advanced stage mineral exploration projects across Africa.



RESPRIME NPC is a non-profit training and development company providing accredited, practical and relevant geoscience training to industry, early career professionals and recent graduates with a focus on fieldwork, geophysics, surveying and exploration geology.

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