

Applied Techniques in Mineral Resource Estimation and Reporting

COURSE OVERVIEW

This advanced technical course provides participants with a comprehensive understanding of modern practices, methodologies and tools used in the estimation, classification and reporting of mineral resources. The course places emphasis on the integration of geological, geostatistical and data driven approaches to develop reliable resource models, while aligning with international reporting standards such as JORC, NI 43-101, and SAMREC. Through case studies exercises and applications, participants will gain practical skills in data validation, grade interpolation, uncertainty analysis and compliance reporting essential for professional resource evaluation.

WHO SHOULD ATTEND?

This course is designed for geologists, mining engineers, exploration managers, resource analysts and other professionals involved in mineral exploration, mine planning and resource reporting. It is also highly beneficial for regulators, consultants and investors who need a solid grasp of the technical and reporting aspects of mineral resources to support informed decision making.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Apply advanced geostatistical and computational techniques for resource estimation.
- Validate, analyze, and interpret geological and assay data to support reliable resource models.
- Understand and comply with international mineral resource reporting standards.
- Assess resource classification, risks, and uncertainty in estimation and reporting.
- Translate technical resource evaluations into transparent, defensible reports for stakeholders.
- Integrate data-driven insights to enhance accuracy and confidence in mineral resource evaluations.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Comprehensive coverage of geological modelling and estimation workflows.
- Practical exercises using industry-standard software and datasets.
- Case studies illustrating best practices and common pitfalls in resource reporting.
- Guidance on aligning estimation practices with JORC, NI 43-101, and SAMREC codes.
- Expert-led sessions bridging theory with real-world mining industry challenges.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded