# Mineral Valuation Techniques Training Course

Professional Development Training Course Outline

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| **Category** | General Training | **Duration** | 5 Days |
| **Base Fee** | $1,500 USD | **Delivery Mode** | Online / On-site Hybrid |

## Course Introduction

The Mineral Valuation Techniques Training Course is designed to equip professionals with advanced competencies in mineral asset valuation, mining economics, resource estimation, feasibility analysis, ESG compliance, financial modeling, commodity market intelligence, due diligence, and sustainable mining investment strategies. As the global mining sector rapidly transforms through digitalization, energy transition minerals, critical minerals demand, and ESG-driven investment frameworks, organizations require professionals capable of applying internationally recognized valuation methodologies to optimize mineral asset performance and investment outcomes.

This comprehensive training provides practical exposure to discounted cash flow (DCF) modeling, JORC and NI 43-101 reporting standards, risk-adjusted valuation models, mine project appraisal, mineral reserve classification, artificial intelligence in mining analytics, commodity price forecasting, blockchain in mineral trading, and mining project financing techniques. Through real-world case studies, simulation exercises, and hands-on valuation tools, participants will develop strategic capabilities to assess mining projects, improve investment confidence, reduce operational risk, and maximize shareholder value in both emerging and established mining markets.

## Programme Curriculum

**Mineral Valuation Techniques Training Course**

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**Course Duration**

5 days

**Course Objectives**

By the end of this course, participants will be able to:

1. Understand modern mineral valuation frameworks and international reporting standards.
2. Apply Discounted Cash Flow (DCF) models for mining project evaluation.
3. Analyze critical minerals market trends and commodity price volatility.
4. Conduct advanced resource and reserve estimation using industry best practices.
5. Integrate ESG and sustainability metrics into mineral asset valuation.
6. Perform financial risk analysis and mining investment forecasting.
7. Evaluate mining projects using AI-driven analytics and predictive modeling.
8. Develop professional mining financial models for investment decisions.
9. Assess mergers, acquisitions, and due diligence in the mining sector.
10. Apply sensitivity analysis and scenario planning to mineral projects.
11. Understand mine lifecycle economics and production optimization strategies.
12. Interpret JORC, SAMREC, and NI 43-101 compliance standards effectively.
13. Enhance strategic decision-making using data-driven mining valuation techniques.

**Target Audience**

1. Mining Engineers
2. Geologists and Resource Geologists
3. Mineral Economists
4. Financial Analysts and Investment Advisors
5. Mining Project Managers
6. Government Mining Regulators
7. ESG and Sustainability Professionals
8. Mining Consultants and Business Development Executives

**Course Modules**

**Module 1: Fundamentals of Mineral Valuation**

- Principles of mineral economics
- Types of mineral assets and valuation approaches
- International valuation standards and frameworks
- Key drivers of mining project profitability

- Case Study: Valuation of a gold mining project in Africa

**Module 2: Resource and Reserve Estimation**

- Mineral resource classification systems
- Geological modeling and grade estimation
- Ore reserve calculation techniques
- Geostatistics and uncertainty analysis
- Case Study: Copper reserve estimation using block modeling

**Module 3: Financial Modeling for Mining Projects**

- Mining cash flow analysis
- Discounted Cash Flow (DCF) valuation techniques
- Net Present Value (NPV) and Internal Rate of Return (IRR)
- Capital and operating cost estimation
- Case Study: Financial evaluation of a lithium mining project

**Module 4: Commodity Markets and Price Forecasting**

- Global commodity market dynamics
- Critical minerals and energy transition demand
- Price forecasting techniques and analytics
- Market risk and volatility assessment
- Case Study: Rare earth minerals market analysis

**Module 5: ESG and Sustainable Mining Valuation**

- ESG integration in mining investments
- Carbon footprint and sustainability metrics
- Social license to operate (SLO)
- Responsible sourcing and governance compliance
- Case Study: ESG valuation impact on an international mining company

**Module 6: Risk Analysis and Investment Decision-Making**

- Sensitivity and scenario analysis
- Monte Carlo simulation in mining projects
- Political and operational risk assessment
- Investment appraisal and project ranking
- Case Study: Risk-adjusted valuation for a coal mining operation

**Module 7: Digital Transformation and AI in Mining Valuation**

- Artificial Intelligence applications in mining
- Big data and predictive analytics
- Blockchain technology in mineral trading
- Digital mine optimization tools
- Case Study: AI-enabled mineral resource forecasting

**Module 8: Due Diligence, Mergers & Acquisitions**

- Technical due diligence processes

- Mining asset acquisition strategies
- Valuation during mergers and acquisitions
- Legal and regulatory compliance considerations
- Case Study: Cross-border mining acquisition analysis

### Training Methodology

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

**Register as a group from 3 participants for a Discount**

**Send us an email: info@fineskilltrainingcenter.org or call** *+254769199797*

***Certification***

*Upon successful completion of this training, participants will be issued with a globally- recognized certificate.*

***Tailor-Made Course***

*We also offer tailor-made courses based on your needs.*

**Key Notes**

**a.** The participant must be conversant with English.

**b.** Upon completion of training the participant will be issued with an Authorized Training Certificate

**c.** Course duration is flexible and the contents can be modified to fit any number of days.

**d.** The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

**e.** One-year post-training support Consultation and Coaching provided after the course.

**f.** Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

## Upcoming Scheduled Sessions

| Start Date | End Date | Location | Price |
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| **23 Nov 2026** | 27 Nov 2026 | Online | $1,000 |
| **23 Nov 2026** | 27 Nov 2026 | Physical | $1,500 |
| **23 Nov 2026** | 27 Nov 2026 | Physical | $3,000 |
| **23 Nov 2026** | 27 Nov 2026 | Physical | $3,000 |
| **23 Nov 2026** | 27 Nov 2026 | Physical | $6,000 |
| **23 Nov 2026** | 27 Nov 2026 | Physical | $4,500 |
| **23 Nov 2026** | 27 Nov 2026 | Physical | $6,000 |
| **23 Nov 2026** | 27 Nov 2026 | Physical | $6,000 |

Ready to enroll or request a customized program? Book online or contact us:

**Register Online Now**

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com