Mining Project Feasibility Studies Training Course

Professional Development Training Course Outline

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

Course Introduction

The Mining Project Feasibility Studies Training Course is designed to equip professionals with advanced skills in mining economics, resource evaluation, project appraisal, risk analysis, and investment decision-making. As global demand for critical minerals, sustainable extraction, and energy transition metals continues to rise, the ability to conduct accurate and bankable feasibility studies has become a core competency in the mining sector. This course integrates technical mining engineering, financial modeling, geological assessment, ESG compliance, and project valuation techniques to ensure participants can confidently evaluate mining projects from exploration through to production readiness.

With increasing emphasis on ESG compliance, sustainable mining, digital mine planning, and capital-intensive investment decisions, mining companies and investors require professionals who can deliver bankable feasibility studies (BFS), pre-feasibility studies (PFS), and scoping studies aligned with international reporting standards such as NI 43-101 and JORC Code compliance. This training provides hands-on exposure to real-world mining project datasets, advanced valuation models, and risk mitigation frameworks. Participants will develop expertise in CAPEX/OPEX estimation, cash flow modeling, sensitivity analysis, mine design optimization, and strategic mine planning, enabling them to support high-value investment decisions in the global mining industry.

Programme Curriculum

Mining Project Feasibility Studies Training Course

Introduction

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5 days

Course Objectives

1. Master Mining Feasibility Study Frameworks (Scoping, PFS, BFS)
2. Apply Mineral Resource Estimation and Geological Modeling Techniques
3. Develop Mine Economic Evaluation and Investment Appraisal Models
4. Conduct CAPEX and OPEX Cost Estimation for Mining Projects
5. Build advanced Cash Flow Forecasting and Discounted Cash Flow (DCF) Models
6. Perform Risk Assessment and Sensitivity Analysis in Mining Projects
7. Evaluate Commodity Price Forecasting and Market Demand Trends
8. Understand Mine Design Optimization and Production Scheduling
9. Apply ESG (Environmental, Social, Governance) Compliance in Mining Projects
10. Interpret JORC Code and NI 43-101 Reporting Standards
11. Assess Project Financing, ROI, NPV, and IRR Metrics
12. Integrate Digital Mining Technologies and Data Analytics in Feasibility Studies
13. Develop capability in Bankable Feasibility Study (BFS) Preparation and Presentation

Target Audience

1. Mining Engineers and Geological Engineers
2. Mineral Resource Analysts and Geologists
3. Project Managers in Mining and Exploration Companies
4. Investment Analysts and Mining Finance Professionals
5. Government Mining Regulators and Policy Makers
6. ESG and Sustainability Consultants in Extractive Industries
7. Mining Surveyors and Technical Consultants
8. Students and Researchers in Mining Engineering and Earth Sciences

Course Modules

Module 1: Introduction to Mining Feasibility Studies

- Types: Scoping, PFS, BFS frameworks
- Project lifecycle in mining development
- Industry reporting standards overview

- Economic thresholds and decision gates
- **Case Study:** Iron ore project feasibility evolution in Western Australia

Module 2: Geological Modeling & Resource Estimation

- 3D geological modeling techniques
- Ore body classification and grade estimation
- Resource vs reserve classification
- Software tools for geological interpretation
- **Case Study:** Copper deposit modeling in Chile

Module 3: Mine Design & Production Planning

- Open pit vs underground mine design
- Stope optimization and pit shell analysis
- Production scheduling techniques
- Equipment selection and mine layout
- **Case Study:** Gold mine production optimization in South Africa

Module 4: Capital & Operating Cost Estimation

- CAPEX structure and breakdown
- OPEX drivers in mining operations
- Equipment lifecycle costing
- Contractor vs owner mining cost models
- **Case Study:** Nickel project cost escalation analysis in Indonesia

Module 5: Financial Modeling & Investment Appraisal

- DCF, NPV, IRR calculations
- Payback period and profitability index
- Commodity price sensitivity modeling
- Scenario and Monte Carlo analysis
- **Case Study:** Lithium project investment decision in Argentina

Module 6: Risk Analysis & Project Uncertainty

- Geological risk assessment
- Market volatility and price risk
- Operational and technical risk factors
- Sensitivity and scenario planning
- **Case Study:** Uranium project risk restructuring in Canada

Module 7: ESG, Sustainability & Regulatory Compliance

- Environmental impact assessments (EIA)
- Social license to operate (SLO)
- Tailings management and rehabilitation planning
- ESG reporting frameworks
- **Case Study:** Sustainable coal mine transition strategy in Germany

Module 8: Bankable Feasibility Study (BFS) Development

- Structure of BFS documentation
- Investor presentation techniques
- Due diligence requirements
- Financing readiness and stakeholder engagement
- **Case Study:** World-class platinum project BFS approval in South Africa

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

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