INTRODUCTION TO MINING AND MINING FINANCE



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TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Introduction

Introduction to Mining and Mining Finance Training Course gives finance, banking and technical professionals a clear grounding in how mining projects work and how they are funded. Participants learn the stages of a mining project, from exploration and resource definition through feasibility, construction and production, and how each stage shapes financing needs. The programme covers resource and reserve reporting codes, capital and operating cost structures, project economics, debt and equity funding, streaming and royalty arrangements and offtake agreements. Furthermore, it addresses commodity price exposure, environmental obligations and country risk. As a result, delegates can evaluate a mining opportunity and structure funding responsibly. Gentex Training Center delivers the programme through modelling workshops and deal case work.

Introduction to Mining and Mining Finance Course Objectives

- Explain the mining project lifecycle from exploration to closure and rehabilitation.
- Interpret resource and reserve classifications under JORC and NI 43-101 codes.
- Assess capital and operating cost structures for open pit and underground mines.
- Build project economics using NPV, IRR and payback analysis.
- Apply commodity price assumptions and sensitivity analysis to mining valuations.
- Compare debt, equity, streaming, royalty and offtake financing structures.
- Evaluate project finance arrangements and security packages for mining assets.
- Assess country, permitting, environmental and social risk in mining investment.
- Apply environmental rehabilitation and closure cost provisioning principles.
- Prepare and present a mining finance proposal to an investment committee.

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Course Methodology

The course combines practical briefings with modelling workshops and deal case studies. Participants assess a mining project's economics in Microsoft Excel, compare funding structures and prepare an investment proposal. In addition, structured peer review and group discussion reinforce each technique, and every day closes with an applied mining finance task.

Who Should Take This Course

- Mining finance and project finance bankers.
- Corporate finance and treasury professionals in mining companies.
- Mining analysts, investors and fund managers.
- Engineers, geologists and technical staff moving into commercial roles.
- Accountants and controllers in mining operations.
- Consultants and advisers serving mining clients.

Introduction to Mining and Mining Finance Course Outlines

Day 1: The Mining Lifecycle and Industry Structure

- Stages: exploration, resource definition, feasibility, construction, production, closure.
- Mining methods: open pit, underground and processing routes.
- Major and junior mining companies and their funding profiles.
- Roles of governments, regulators, communities and investors.
- Resource and reserve reporting codes including JORC and NI 43-101.

- Competent person requirements and reporting governance.
- Workshop: mapping a mining project's lifecycle and funding needs.

Day 2: Costs, Economics and Project Valuation

- Capital cost estimation: study phases, accuracy levels and contingencies.
- Operating cost structure: mining, processing, transport and overheads.
- Cut-off grade, strip ratio and their effect on economics.
- Free cash flow forecasting for a mining project.
- Project valuation using NPV, IRR and payback analysis.
- Sensitivity and scenario analysis on price, grade and cost drivers.
- Workshop: building a mining project cash flow model in Excel.

Day 3: Funding Structures for Mining Projects

- Equity funding: IPOs, placements, rights issues and strategic investors.
- Debt funding: project finance, corporate debt and prepayment facilities.
- Streaming and royalty arrangements and their economics.
- Offtake agreements and price participation structures.
- Export credit agency and multilateral support for mining projects.
- Comparing funding options on cost, control and flexibility.
- Workshop: comparing three funding structures for one project.

Day 4: Risk, Regulation and ESG in Mining Finance

- Commodity price and currency risk and hedging approaches.
- Country risk, permitting and political risk assessment.
- Environmental and social impact assessment requirements.

- Tailings management and community relations risks.
- Rehabilitation and closure cost provisioning and guarantees.
- Governance, transparency and reporting expectations for mining.
- Workshop: building a risk profile for a mining investment.

Day 5: Deal Structuring and Investment Decision

- Security packages including asset, share and offtake security.
- Conditions precedent, drawdown and covenant design.
- Due diligence: technical, legal, environmental and financial workstreams.
- Modelling debt sizing and debt service coverage for mining assets.
- Preparing an investment memorandum and committee paper.
- Presenting a mining finance proposal and defending assumptions.
- Workshop: defending a mining finance proposal before a review panel.

Conclusion

By successfully completing Introduction to Mining and Mining Finance Training Course, participants will have acquired the knowledge to evaluate mining projects and structure funding for them. They will understand the mining lifecycle, reserve reporting, cost structures, project economics, funding options, risk assessment and deal structuring, and they will know how to present a proposal with defensible numbers. As a result, delegates support sound mining investment decisions. Gentex Training Center builds the programme around current mining finance practice.

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FAQs for the Introduction to Mining and Mining Finance course

Q1 What is the "Introduction to Mining and Mining Finance" course about?

It explains how mining projects are developed and funded. You cover the mining lifecycle, resource and reserve reporting, capital and operating costs, project economics, debt, equity, streaming and royalty structures, risk assessment and deal structuring, with practical modelling.

Q2 What are the key benefits of the "Introduction to Mining and Mining Finance" course?

You gain the ability to read a mining project's economics and question its assumptions rather than accepting the headline numbers. You also compare funding structures on real cost and control terms, understand the sector's risks better, and prepare proposals that stand up to investment committee review.

Q3 What skills will I gain from the "Introduction to Mining and Mining Finance" course?

You will gain mining project lifecycle and reserve reporting analysis, mining project economics and valuation, mining funding structure and deal structuring, and mining risk, regulatory and ESG assessment.

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Q4 What tools, methods, or standards are covered in the "Introduction to Mining and Mining Finance" course?

The course covers JORC and NI 43-101 resource and reserve reporting codes, competent person requirements, capital and operating cost estimation, cut-off grade and strip ratio analysis, NPV, IRR and payback valuation, sensitivity and scenario analysis, project finance and prepayment structures, streaming and royalty arrangements, offtake agreements, and rehabilitation and closure cost provisioning.

Q5 How is the "Introduction to Mining and Mining Finance" course applied in real-world practice?

Graduates apply it to screen mining opportunities, build and review project cash flow models, assess feasibility study assumptions, compare and structure funding packages, evaluate country and environmental risk, size debt against project cash flows, and prepare investment memoranda for committees and lenders.