MINING ECONOMICS AND INVESTMENT MANAGEMENT



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TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
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Introduction

Mining Economics and Investment Management Training Course prepares finance, mining and investment professionals to evaluate mineral assets and manage them through commodity cycles. Participants learn how mining projects are modelled economically, how capital is allocated across a portfolio and how performance is monitored once an asset is in production. The programme covers resource and reserve reporting, capital and operating cost structures, cash flow modelling, valuation, risk analysis and portfolio management. Furthermore, it addresses commodity price exposure, country risk and ESG obligations. As a result, delegates can screen opportunities, defend valuations and manage mining investments with discipline. Gentex Training Center delivers the programme through modelling workshops and investment case work.

Mining Economics and Investment Management Course Objectives

- Explain the mining value chain and the economics that drive each stage.
- Interpret resource and reserve reporting under JORC and NI 43-101.
- Build capital and operating cost estimates for open pit and underground mines.
- Model free cash flow and value mining projects using NPV, IRR and payback.
- Apply commodity price decks and sensitivity analysis to project valuations.
- Calculate valuation multiples including EV/EBITDA and price to net asset value.
- Compare equity, debt, streaming, royalty and offtake funding structures.
- Assess country, permitting, currency and political risk exposures.
- Apply ESG, rehabilitation and closure cost obligations to investment decisions.
- Manage a mining portfolio, monitor asset performance and report to boards.

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Course Methodology

The course combines technical briefings with hands-on modelling workshops and investment case studies. Participants build a mining project cash flow model, run scenarios and prepare an investment recommendation. In addition, structured peer review and group debate sharpen commercial judgement, and every day closes with an applied investment task.

Who Should Take This Course

- Mining finance, planning and corporate development professionals.
- Investment analysts and fund managers covering resources.
- Corporate finance and treasury staff in mining companies.
- Bankers and advisers serving mining clients.
- Engineers and geologists moving into commercial roles.
- Asset managers and controllers responsible for mine performance.

Mining Economics and Investment Management Course Outlines

Day 1: Mining Value Chain and Resource Reporting

- Mining lifecycle: exploration, feasibility, construction, production and closure.
- Resource and reserve classifications under JORC and NI 43-101.
- Competent person requirements and reporting governance.
- Open pit, underground and processing routes and their economics.
- Major, mid-tier and junior companies and their funding profiles.
- Commodity selection and portfolio diversification logic.

- Workshop: mapping a mining project and assessing its reporting quality.

Day 2: Cost Structures and Project Economics

- Capital cost estimation, study phases and contingency levels.
- Operating cost drivers: mining, processing, transport and overheads.
- Cut-off grade, strip ratio and life-of-mine planning.
- Free cash flow modelling for a mining project in Excel.
- 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 and valuation model.

Day 3: Valuation Multiples, Prices and Risk

- Commodity price deck construction and forecasting approaches.
- Valuation multiples: EV/EBITDA, P/NAV and price to cash flow.
- Discount rate selection and country risk premiums.
- Reserve risk, grade uncertainty and resource conversion.
- Currency, interest rate and price hedging policy.
- Country, permitting, political and licence security risk.
- Workshop: valuing a mining asset and stress-testing key assumptions.

Day 4: Funding, Deals and ESG Obligations

- Equity funding: IPO, placement, rights issue and strategic investors.
- Debt funding: project finance, corporate facilities and prepayment.
- Streaming, royalty and offtake structures and their economics.
- Acquisition due diligence across technical, financial and ESG workstreams.

- Environmental and social impact, tailings and rehabilitation obligations.
- Closure cost provisioning and financial assurance requirements.
- Workshop: structuring funding and assessing ESG exposure on a deal.

Day 5: Portfolio Management and Board Reporting

- Portfolio construction, capital rationing and prioritisation.
- Asset monitoring, KPI frameworks and value tracking.
- Mine expansion, turnaround and divestment decisions.
- Capital allocation across a multi-asset mining portfolio.
- Preparing investment memoranda and board papers.
- Presenting and defending investment recommendations under challenge.
- Workshop: defending a mining investment recommendation before a review panel.

Conclusion

By successfully completing Mining Economics and Investment Management Training Course, participants will have acquired the knowledge to evaluate mineral assets and manage mining investments through the cycle. They will understand cost structures, project economics, valuation, funding structures, risk and ESG obligations, and portfolio management, and they will know how to present recommendations that withstand board scrutiny. As a result, delegates improve capital allocation in mining portfolios. Gentex Training Center builds the programme around current mining investment practice.

FAQs for the Mining Economics and Investment Management course

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Q1 What is the "Mining Economics and Investment Management" course about?

It covers how mining projects are valued and how mineral investments are managed. You learn resource reporting, cost structures, cash flow modelling, project valuation, valuation multiples, funding structures, risk and ESG assessment and portfolio management, with practical modelling.

Q2 What are the key benefits of the "Mining Economics and Investment Management" course?

You gain the ability to read a mining project's economics and question its assumptions rather than accepting headline numbers. You also compare funding structures on real cost terms, strengthen risk and ESG assessment, monitor asset performance with better indicators, and prepare recommendations that survive board challenge.

Q3 What skills will I gain from the "Mining Economics and Investment Management" course?

You will gain mining project cost and cash flow modelling, mining asset valuation and multiple analysis, mining funding structure and deal assessment, and mining risk, ESG and portfolio management.

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Q4 What tools, methods, or standards are covered in the "Mining Economics and Investment Management" course?

The course covers JORC and NI 43-101 resource and reserve reporting codes, capital and operating cost estimation, cut-off grade and strip ratio analysis, free cash flow modelling with NPV, IRR and payback, EV/EBITDA and P/NAV valuation multiples, commodity price deck construction, sensitivity and scenario analysis, project finance and prepayment structures, streaming and royalty arrangements, environmental and social impact assessment, tailings and rehabilitation obligations, and closure cost provisioning.

Q5 How is the "Mining Economics and Investment Management" 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 ESG risk, monitor operating assets against value plans, and prepare investment memoranda and board papers for mining portfolios.