Project Management in Mining 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

Project Management in Mining Training Course is designed to equip professionals with advanced skills in mining project planning, execution, risk management, cost control, and operational optimization. As the global mining sector becomes increasingly complex and technology-driven, organizations require highly competent project managers who can deliver projects on time, within budget, and in compliance with strict safety and environmental regulations. This course integrates modern project management methodologies (PMI, Agile hybrid models), mining engineering principles, and digital transformation tools to improve efficiency and productivity across surface and underground mining operations.

This training emphasizes real-world application through case studies from large-scale mining projects, covering exploration, feasibility studies, mine development, production scaling, and closure planning. Participants will gain hands-on expertise in resource allocation, stakeholder management, contract administration, HSE compliance, and mining risk analytics. The course is designed to bridge the gap between technical mining operations and strategic project leadership, enabling professionals to drive sustainable mining performance, operational excellence, and capital project success in a highly competitive global industry.

Programme Curriculum

Project Management in Mining Training Course

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5 days

Course Objectives

1. Master Mining Project Lifecycle Management from exploration to closure
2. Apply Advanced Project Scheduling (Primavera P6 / MS Project) in mining operations
3. Develop expertise in Mining Risk Management & Predictive Risk Analytics
4. Enhance Cost Control, Budgeting & Capital Expenditure Optimization (CAPEX)
5. Implement Lean Mining & Operational Efficiency Strategies
6. Strengthen Health, Safety & Environment (HSE) Compliance Systems
7. Utilize Digital Mining Technologies & Smart Mining Systems
8. Improve Stakeholder Engagement & Community Relations Management
9. Develop Contract Management & Procurement Strategies in Mining Projects
10. Apply Agile & Hybrid Project Management Frameworks in Mining
11. Strengthen Mine Planning & Production Optimization Techniques
12. Integrate Sustainability & ESG (Environmental, Social, Governance) Principles
13. Build leadership skills in High-Performance Mining Project Teams

Target Audience

1. Mining Engineers and Project Engineers
2. Project Managers in Mining and Resources Sector
3. Mine Planning and Production Supervisors
4. Geologists involved in mining development projects
5. HSE Officers in mining operations
6. Procurement and Contract Managers in mining companies
7. Operations Managers and Site Supervisors
8. Engineering Consultants and Mining Contractors

Course Modules

Module 1: Mining Project Lifecycle Management

- Phases-exploration, feasibility, development, production, closure
- Project governance structures in mining
- Stage-gate approval systems
- Resource estimation and feasibility validation
- **Case Study:** Development lifecycle of a large open-pit copper mine

Module 2: Advanced Project Planning & Scheduling

- Work Breakdown Structure (WBS) for mining projects
- Critical Path Method (CPM) in mine construction
- Primavera P6 applications
- Resource leveling and optimization
- **Case Study:** Underground gold mine development schedule recovery plan

Module 3: Mining Cost Engineering & Budget Control

- CAPEX and OPEX structuring
- Cost estimation models in mining
- Financial risk exposure analysis
- Variance tracking and reporting systems
- **Case Study:** Cost overrun recovery in a coal mining expansion project

Module 4: Risk Management & Safety Systems

- Mining hazard identification frameworks
- Quantitative and qualitative risk analysis
- Safety management systems
- Emergency response planning
- **Case Study:** Risk mitigation in a tailings dam failure prevention project

Module 5: Procurement & Contract Management in Mining

- EPC/EPCM contract structures
- Vendor evaluation and selection
- Contract negotiation strategies
- Supply chain optimization in remote mining sites
- **Case Study:** Procurement delays in a iron ore processing plant project

Module 6: Mining Technology & Digital Transformation

- Smart mining systems and IoT applications
- Drone surveying and automated haulage systems
- Data analytics for production optimization
- Digital twin technology in mine planning
- **Case Study:** Automation rollout in a platinum mine operation

Module 7: Stakeholder & ESG Management

- Community engagement frameworks
- ESG compliance reporting systems
- Environmental impact assessments (EIA)
- Conflict resolution with local communities
- **Case Study:** Community relocation project in a large-scale mining expansion

Module 8: Project Leadership & Performance Optimization

- Leadership styles in mining environments
- Team performance management
- Productivity benchmarking
- Change management in mining projects

- **Case Study:** Turnaround strategy for a delayed nickel mining project

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

Start Date	End Date	Location	Price
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:

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