Monitoring & Evaluation in Mining Projects 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

Mining projects operate in a highly complex environment where operational efficiency, environmental compliance, ESG reporting, stakeholder accountability, and sustainable resource management are critical for long-term success. Monitoring & Evaluation in Mining Projects Training Course is designed to equip professionals with advanced skills to plan, implement, and manage robust M&E systems across the mining lifecycle. Participants will gain practical expertise in data-driven decision-making, impact assessment, risk monitoring, sustainability tracking, and performance measurement frameworks aligned with global mining standards and ESG expectations.

The course integrates modern tools and methodologies used in mining analytics, digital monitoring systems, remote sensing, KPI dashboards, compliance auditing, and socio-environmental evaluation frameworks. It focuses on strengthening institutional capacity for transparent reporting, adaptive management, and evidence-based project optimization. By the end of the training, participants will be able to design and implement high-quality M&E systems that improve productivity, safety compliance, environmental stewardship, and community engagement outcomes in mining operations.

Programme Curriculum

Monitoring & Evaluation in Mining Projects Training Course

Introduction

Mining projects operate in a highly complex environment where operational efficiency, environmental compliance, ESG reporting, stakeholder accountability, and sustainable resource management are critical for long-term success. Monitoring & Evaluation in Mining Projects Training Course is designed to equip professionals with advanced skills to plan, implement, and manage robust M&E systems across the mining lifecycle. Participants will gain practical expertise in data-driven decision-making, impact assessment, risk

monitoring, sustainability tracking, and performance measurement frameworks aligned with global mining standards and ESG expectations.

The course integrates modern tools and methodologies used in mining analytics, digital monitoring systems, remote sensing, KPI dashboards, compliance auditing, and socio-environmental evaluation frameworks. It focuses on strengthening institutional capacity for transparent reporting, adaptive management, and evidence-based project optimization. By the end of the training, participants will be able to design and implement high-quality M&E systems that improve productivity, safety compliance, environmental stewardship, and community engagement outcomes in mining operations.

Course Duration

5 days

Course Objectives

1. Develop advanced Mining Project Monitoring & Evaluation frameworks
2. Apply ESG compliance and sustainability reporting standards
3. Implement real-time data analytics for mining operations
4. Design KPI dashboards for production and safety monitoring
5. Strengthen environmental impact assessment (EIA) tracking systems
6. Improve risk management and early warning systems in mining
7. Integrate remote sensing and GIS in project monitoring
8. Enhance social impact assessment and community engagement evaluation
9. Apply performance-based project management tools
10. Build capacity in data-driven decision-making for mining efficiency
11. Strengthen regulatory compliance and audit readiness systems
12. Optimize resource utilization and operational performance tracking
13. Develop expertise in digital transformation for mining M&E systems

Target Audience

1. Mining Engineers and Project Managers
2. Environmental and Social Impact Officers
3. Government Mining Regulators and Inspectors
4. ESG and Sustainability Analysts
5. Health, Safety & Environment (HSE) Managers
6. Geologists and Exploration Managers
7. Mining Consultants and Development Partners
8. NGO and Community Development Practitioners

Course Modules

Module 1: Foundations of M&E in Mining Projects

- Introduction to M&E frameworks in mining lifecycle
- Key principles of performance measurement
- Mining value chain and monitoring indicators
- Data collection methods in mining environments
- Case Study: Evaluation of copper mining project efficiency in Chile

Module 2: ESG Compliance and Sustainability Monitoring

- ESG standards in global mining industry
- Sustainability KPIs and reporting structures
- Carbon footprint and emissions tracking
- Responsible mining certification systems
- Case Study: ESG compliance monitoring in Australian iron ore mines

Module 3: Environmental Impact Monitoring Systems

- Environmental baseline studies and indicators
- Water, air, and soil quality monitoring
- Biodiversity and ecosystem tracking systems
- Pollution control and mitigation evaluation
- Case Study: Environmental monitoring in South African gold mining operations

Module 4: Social Impact Assessment and Community Monitoring

- Community engagement frameworks
- Resettlement and compensation tracking systems
- Social license to operate (SLO) monitoring
- Conflict resolution and grievance mechanisms
- Case Study: Community impact evaluation in Peruvian mining regions

Module 5: Risk Management and Early Warning Systems

- Mining risk classification systems
- Hazard identification and mitigation tracking
- Disaster preparedness and response monitoring
- Safety performance indicators
- Case Study: Tailings dam failure risk monitoring in Brazil

Module 6: Digital Tools and Data Analytics in M&E

- GIS and remote sensing applications
- IoT sensors in mining operations
- Big data analytics and predictive modeling
- Real-time monitoring dashboards
- Case Study: Smart mining operations in Canada using IoT systems

Module 7: Performance Measurement and KPI Systems

- Designing mining-specific KPIs
- Production efficiency metrics
- Cost-benefit analysis tools
- Benchmarking mining operations
- Case Study: KPI optimization in Australian coal mining operations

Module 8: Reporting, Evaluation, and Adaptive Management

- M&E reporting frameworks and standards
- Data visualization and dashboards
- Audit preparation and compliance reporting
- Adaptive management in mining projects

- Case Study: Integrated reporting system in multinational mining company

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

Start Date	End Date	Location	Price
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