Training Course on Mining Safety and Health

Professional Development Training Course Outline

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

Course Introduction

The mining industry remains one of the most hazardous sectors globally, with high risks to workers' safety, health, and environmental sustainability. Training Course on Mining Safety and Health is designed to equip industry professionals with essential knowledge and practical tools to minimize operational risks, comply with global safety standards, and enhance workplace resilience. This course integrates current occupational health and safety (OHS) best practices, risk mitigation techniques, and emergency preparedness protocols tailored specifically for mining environments.

With the increasing demand for sustainable mining, there is a critical need to foster a safety-first culture that prioritizes hazard identification, preventive controls, and regulatory compliance. This training empowers mining professionals—from field workers to safety managers—to build robust safety frameworks and improve overall productivity. Whether you work in underground or surface mining, this course delivers actionable insights supported by real-world case studies, interactive training modules, and certification-ready assessments.

Programme Curriculum

Training Course on Mining Safety and Health

Introduction

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Course Objectives

1. Understand occupational health standards for the mining industry.
2. Identify and mitigate site-specific mining hazards.
3. Implement personal protective equipment (PPE) protocols effectively.
4. Establish mine emergency response plans.
5. Apply incident investigation techniques to prevent recurrence.
6. Promote workplace safety culture and behavioral change.
7. Enhance regulatory compliance with local and international laws.
8. Leverage data-driven safety monitoring tools.
9. Address respiratory health risks and dust control measures.
10. Strengthen communication and reporting structures.
11. Utilize automation and smart tech for health and safety.
12. Analyze safety performance indicators for continuous improvement.
13. Develop training programs for mine workers and supervisors.

8 Target Audience

1. Mine Safety Managers
2. Health & Safety Officers
3. Environmental Engineers
4. Mining Supervisors
5. Site Engineers
6. Risk and Compliance Auditors
7. Human Resource Managers
8. Government Mining Inspectors

Course Duration: 5 days

Course Modules

Module 1: Fundamentals of Mining Safety

- Introduction to mining industry risks
- Overview of workplace safety principles
- Safety laws and regulatory frameworks
- Safety terminology and reporting tools
- Roles and responsibilities of workers and managers
- **Case Study: Pike River Mine Disaster – Lessons Learned**

Module 2: Hazard Identification and Risk Assessment

- Recognizing common and hidden hazards
- Conducting risk assessments and audits
- Using risk matrices and scoring systems
- Hazard communication strategies
- Control hierarchy application
- **Case Study: Reducing Risks in Open-Pit Mining Operations**

Module 3: Personal Protective Equipment (PPE) and Site Safety

- Types of PPE and proper usage

- PPE maintenance and inspection protocols
- PPE policy development
- Workplace signage and alerts
- Safety zone demarcation
- **Case Study: PPE Failure Analysis in Coal Mining Incident**

Module 4: Emergency Preparedness and Response

- Creating an emergency action plan
- Fire safety and evacuation procedures
- Mine rescue operations
- First aid and trauma care in mines
- Emergency drills and simulations
- **Case Study: Successful Evacuation During Chilean Mine Collapse**

Module 5: Occupational Health Hazards

- Exposure to noise, dust, and gases
- Ergonomic hazards and musculoskeletal disorders
- Managing fatigue and heat stress
- Respiratory protective programs
- Mental health support in mining
- **Case Study: Silicosis Prevention Program in Gold Mines**

Module 6: Safety Technology and Innovation

- Introduction to smart PPE and IoT sensors
- Remote monitoring and predictive analytics
- Automation of inspection systems
- Real-time hazard detection
- Drones and AI in mining inspections
- **Case Study: Use of AI to Prevent Accidents in Underground Mines**

Module 7: Legal Compliance and Audit Readiness

- Key national and international safety regulations (e.g., MSHA, ISO 45001)
- Preparing for compliance inspections
- Safety documentation and record-keeping
- Incident reporting systems
- Ethics in safety auditing
- **Case Study: Regulatory Fines Due to Compliance Failures in Iron Ore Mining**

Module 8: Leadership and Safety Culture

- Role of leadership in promoting safety
- Building effective communication channels
- Training and capacity building programs
- Employee engagement and empowerment
- Safety performance metrics and KPIs
- **Case Study: Transformational Safety Culture in a South African Platinum Mine**

Training Methodology

- Interactive lectures using multimedia presentations
- Hands-on workshops and scenario-based simulations
- Real-life case study discussions

- Group activities and team-based problem-solving
- Online assessments and knowledge checks
- Final certification exam and feedback session

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

Start Date	End Date	Location	Price
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