Mine Closure Planning 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

The Mine Closure Planning Training Course is designed to equip mining professionals, environmental specialists, sustainability managers, regulators, and project leaders with advanced knowledge and practical skills in modern mine closure and post-mining land rehabilitation. With increasing global focus on ESG compliance, sustainable mining, environmental stewardship, carbon neutrality, biodiversity conservation, and social license to operate, effective mine closure planning has become a critical strategic priority across the mining sector. This course provides participants with in-depth understanding of integrated mine closure frameworks, progressive rehabilitation, financial provisioning, environmental risk management, stakeholder engagement, circular economy practices, climate adaptation strategies, and regulatory compliance aligned with international mining standards and sustainable development goals.

The training emphasizes practical implementation of innovative mine closure solutions through real-world case studies, digital mine rehabilitation technologies, GIS and remote sensing applications, tailings management strategies, water stewardship, mine waste optimization, and long-term socio-economic transition planning. Participants will gain the expertise required to develop cost-effective, risk-based, and sustainable closure plans that minimize environmental liabilities while maximizing community resilience and ecological restoration outcomes. The course integrates global best practices, emerging technologies, sustainability reporting frameworks, and climate-smart closure methodologies to support responsible mining operations and successful mine transition management.

Programme Curriculum

Mine Closure Planning Training Course

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Course Duration

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Course Objectives

1. Understand modern Mine Closure Planning Frameworks and sustainable mining strategies.
2. Develop expertise in ESG-driven Mine Closure Management and sustainability reporting.
3. Analyze Environmental Risk Assessment and mitigation techniques for mine closure.
4. Implement Progressive Rehabilitation and ecosystem restoration methodologies.
5. Apply Climate Change Adaptation and carbon reduction strategies in closure planning.
6. Design effective Tailings Storage Facility Closure and mine waste management systems.
7. Strengthen knowledge in Financial Provisioning and Liability Estimation for mine closure.
8. Utilize GIS, Remote Sensing, and Digital Mine Closure Technologies for monitoring and reporting.
9. Improve Stakeholder Engagement and Social Transition Planning for mining communities.
10. Integrate Circular Economy and Resource Recovery Approaches into mine closure projects.
11. Enhance compliance with International Mining Regulations and IFC Standards.
12. Develop competency in Water Stewardship and Acid Mine Drainage Management.
13. Create sustainable Post-Mining Land Use and Biodiversity Conservation Plans.

Target Audience

1. Mine Managers and Closure Planning Engineers
2. Environmental and Sustainability Professionals
3. Mining Consultants and Technical Advisors
4. ESG and Corporate Responsibility Managers
5. Government Regulators and Mining Authorities
6. Health, Safety, and Environment (HSE) Personnel
7. Geologists, Hydrogeologists, and Rehabilitation Specialists
8. Community Relations and Social Performance Officers

Course Modules

Module 1: Fundamentals of Mine Closure Planning

- Principles of mine closure and rehabilitation
- International mine closure standards and guidelines
- Mine lifecycle integration and closure strategies
- ESG and sustainable mining concepts
- Closure governance and compliance frameworks
- **Case Study:** Successful integrated closure planning in large-scale open-pit mining operations.

Module 2: Environmental Risk Assessment and Management

- Environmental impact identification techniques
- Risk-based closure planning methodologies
- Soil, air, and water contamination assessment
- Biodiversity risk management strategies
- Environmental monitoring systems and KPIs
- **Case Study:** Acid mine drainage remediation and environmental restoration project.

Module 3: Progressive Rehabilitation and Ecosystem Restoration

- Progressive rehabilitation planning techniques
- Revegetation and landform design strategies
- Native species restoration approaches
- Soil stabilization and erosion control methods
- Long-term ecological sustainability planning
- **Case Study:** Rehabilitation of degraded mining landscapes using nature-based solutions.

Module 4: Tailings and Mine Waste Closure Management

- Tailings storage facility closure strategies
- Mine waste characterization and stabilization
- Geotechnical risk management practices
- Water balance and seepage control systems
- Circular economy opportunities in mine waste reuse
- **Case Study:** Tailings dam rehabilitation and risk reduction project.

Module 5: Water Stewardship and Climate Resilience

- Water management in mine closure
- Acid mine drainage prevention technologies
- Climate-smart mine closure approaches
- Flood and drought risk mitigation planning
- Sustainable watershed restoration strategies
- **Case Study:** Climate adaptation planning for mine closure in water-scarce regions.

Module 6: Financial Provisioning and Liability Management

- Mine closure cost estimation methodologies
- Financial assurance and provisioning models
- Closure liability optimization techniques
- Economic risk analysis and forecasting
- ESG investment and sustainability financing
- **Case Study:** Financial risk reduction through progressive closure implementation.

Module 7: Stakeholder Engagement and Social Transition

- Community engagement and consultation frameworks
- Social impact management strategies
- Indigenous and local community inclusion
- Post-mining economic transition planning
- Conflict resolution and social license management
- **Case Study:** Community-led post-mining land redevelopment initiative.

Module 8: Digital Technologies and Future Trends in Mine Closure

- GIS and remote sensing applications
- Drone technology for closure monitoring
- AI and predictive analytics in rehabilitation
- Digital twin and smart mine closure systems
- Sustainability reporting and ESG dashboards
- **Case Study:** Use of digital mine closure platforms for real-time environmental monitoring.

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- 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
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

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