



Southern Africa Development Institute

**2024 PROPOSED TRAINING INTERVENTIONS FOR THE MINING SECTOR**

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## **1. Executive Course on Oil, Gas and Mining Governance**

### **Overview:**

Countries with non-renewable resource wealth face both an opportunity and a challenge. When used well, these resources can create greater prosperity for current and future generations. Squandered, they can cause economic instability, social conflict, and lasting environmental damage. To benefit from resource wealth, citizens, private companies, and governments must make a broad range of decisions. Each requires leaders to consider complex options and trade-offs, and devise strategies to implement these policy choices. This intensive five-day course provides the training and insight required for policy leaders in the public and private sector to work towards better management and governance of oil, gas or mineral resources for a better future. The course builds a better understanding of the interests of the public and private sectors and facilitates dialogue and mutual appreciation of respective positions between these different groups.

The course looks at both technical policy aspects of managing resource and the complex interplay between governments, companies and citizens.

### **Overview of topics:**

- Licensing and discovering minerals;
- Taxing companies and combating tax abuses;
- Directing state-owned enterprises;
- Protecting local societies and the environment;
- Managing revenues and investment; and
- Implementing your strategy and ensuring accountability.

### **Who to attend?**

This course is open to policy leaders in the public and private sector, alongside those in senior research and non-profit roles, who are committed to better governance in natural resources, and in a position to influence the governance of these sectors.

## 2. Best Practice Risk Management Tools and Techniques

### Overview:

Effective risk management is integral to the success of any exploration project, mining operation, or corporate function. This course is intended for anyone wanting to learn about practical, best practice enterprise risk management techniques to identify, understand, and manage risk in mining.

Risk management is about taking steps to ensure you can manage the most important risks your organisation or team faces. It is about identifying threats and stopping them spiral out of control, as well as enhancing the potential of your opportunities. We achieve this by putting in place a framework, supported by tools and techniques, around how we identify, understand, and control risks. This allows us to manage risks as a team, be that at the level of a shift, or an entire organisation. This helps to ensure that your mine makes best use of both the opportunities and threats it faces, and is ultimately resilient.

On completion you will be able to replicate a successful risk management approach in your own organisation, or enhance what is already in place.

### Course Objective:

You will learn how effective risk management is designed and implemented both at a mine site, and in the corporate office. The tools and techniques discussed can then be tailored to your own requirements and implemented directly in your organisation.

### Who Should Attend?

This course will meet your objectives if you are new to risk management and want to know what it is all about, or if you are searching for examples of best practice in risk management across a mining or other organisation.

## 3. Environmental Awareness for Resource Planning

### Overview:

Today, sustainability is the key to the future success of mining and we carefully consider the long-term impacts of operations on our local communities. Sustainability means we consider the economical, environmental, cultural, and social aspects in the development of our operations as we strive to benefit local communities in the way we benefit from operating as their neighbours.

Sound environmental practices result in improved air, water, land, and heritage resources. Benefits accrue to the environment, our people, our families, the broader community, and future generations. They also result in credibility with local communities in being able to manage the local resource and access to further resources in the future. Your company should be committed to providing guidelines, management, personnel, and resources necessary to minimise potential adverse effects of its operations on the environment and human health.

## **Learning Outcomes**

- Explain the environmental issues facing a company's operations.
- Recognize the applications of a company's environmental policy.
- Define responsibilities for pollution or non-compliance.
- Identify ways of minimizing environmental impact.

## **4. Analysis of Mining Financials**

### **Overview:**

This course will enable you to develop an awareness of the relevant financial information you can discover about a mining corporation from its audited financial statements. You will also have an appreciation for how accountants and financial analysts are challenged with exercising professional judgment on qualitative and quantitative financial material, and balanced with a need for numerical precision. You will recognize that professional judgments included in financial assessments are similar to those made in demonstrating probable and proven mineral reserves.

"Analysis of Mining Financials" uses the business environment in the mining industry as a relevant context for understanding and analyzing the financial statements of mining corporations. It isolates select accounting and financial aspects as being fundamental to your becoming an informed reader of audited financial statements including Balance Sheets, Income Statements, Cash Flows Statements, Statements of Shareholders' Equity and the Audited Notes.

Examples of financial statements of both large and small mining companies are used and analyzed to illustrate these fundamentals.

The course draws on credible sources to highlight relevant characteristics of accounting and financial analysis for mining. The objective of this material is to identify some prominent aspects of financing the corporate mining strategy, delve into the distinct areas where there are issues in accounting for the mining industry, and summarize the risks that are inherent in understanding the financial statements of those involved in mining. The course provides some of the tools to establish a profile of a company's overall financial status and identifies the attributes that contribute to financial health and flexibility. Participants are expected to bring a laptop computer (with MS Excel).

### **Who Should Attend?**

This course is targeted to mining professionals with basic knowledge in finance and/or accounting. It is also recommended for professionals working in the mining industry in the finance, legal, or investment sectors that would like to understand how to extract financial intelligence from mining company financial reports.

### **Provisional Schedule:**

- **Overview of financial management** (including: securities exchanges; capital markets; agency issue, ethics & Sarbanes-Oxley Act; financial institutions & Markets; going public/IPO; stocks/dividends basics)

- **Principles and authorities** underlying accounting reports: basic discussion of IFRS vs. US GAAP as it impacts the financial statements of mining corporations listed on multiple stock exchanges
- **Financial statements** (F/S) and the notes: basics and practice (review the main concepts of key financial statements and their respective components); includes examination of several F/S of mining companies
- **Performing financial statement analysis** (including: statements of comparative and common-size form; ratio analysis; financial distress/forecasting the financial distress of mining companies)
- **Shareholders' equity** section of balance sheets (B/S): different kinds of shares, options, convertible securities; treasury shares in jurisdictions that allow such
- **Earnings per share** (EPS) and other measures of performance; effect of dilutive securities on EPS
- **Investments in others:** passive, significant influence, and control; concepts equity method and consolidated F/S (mergers & acquisition accounting)—specifically, consolidation vs. equity method of accounting
- **Understanding the basics** of derivatives and hedging, and the accounting for derivatives and hedging activities
- **Unstructured:** time for questions and any overlaps from above

## 5. Carbon Capture Utilization and Storage in Oil and Gas Industry for Energy Transition

### Overview:

Today's mineral supply and investment plans fall short of what is needed to transform the energy sector, raising the risk of delayed or more expensive energy transitions.

In this course, we review and analyze the salient features of the ongoing energy transition from a high to a low carbon economy. Carbon capture and storage (CCS) technologies will play a major role in energy transition by decarbonizing existing and new fossil fuel power plants and the production of low-carbon fossil-fuel-based blue hydrogen. Carbon Capture and Storage (CCS), another name for CO<sub>2</sub> sequestration, is an emerging technology that is important for the future of the industry. The environmental aspects of CO<sub>2</sub> make this a 21st century skill. If you like to stay ahead of the curve, you'll enjoy this course.

## 6. Econometrics and forecasting of oil and gas

### Course Overview:

While providing the requisite background on the economics of financial commodity markets, as well as the statistical tools required to understand them, this Training Course demonstrates how the financial and commodity markets provide useful information for the generation of “expected prices”, or forecast prices, in the critical areas of oil, natural-gas and refined products. In so doing, the training course will also demonstrate the important distinction between valuation and risk/return analyses.

**Course Objectives:****At the end of this training course, participants will learn to:**

- Use financial models to analyze and forecast energy prices; extrapolate forward prices beyond the liquidity tenor
- Understand the risk of and return from futures and options contracts on energy commodities
- Manage and optimize their corporations' energy risk exposure
- Estimate expected returns and calculate volatility in energy prices
- Obtain a comprehensive understanding of the financial-economics techniques used to forecast prices
- Apply option valuation techniques to the energy markets
- Utilize real options theory to value energy assets; use information from futures / option prices to make optimal production decisions: Optimal timing for extraction, optimal rate at which to extract oil (gas) from a field; value oil fields, pipelines and storage facilities, power plants

**Who is this Training Course for?**

This training course is suitable to a wide range of professionals but will greatly benefit individuals working in financial analysis, valuation, trading, risk management or quantitative analysis positions with oil and gas exploration companies; investment and commercial banking, consulting, and financial services firms in the energy sector; production and distribution companies; energy trading firms; and corporations outside the energy industry with a significant cost exposure to energy prices.

## **7. Oil and Gas Contract Management**

**Overview:**

This training programme will provide the instructions and guidelines on contracts in an oil and gas industry. The programme will enhance and grow the capabilities and the essential skills of the delegates through the help of solution driven examples mainly from the petroleum resources sector. It will also cover ways to negotiate, create and manage the contract and develop a procurement project. This course will provide the delegates a synopsis of the contract practice and law and will enhance their negotiation capabilities in an effective manner.

**Course Outcomes:****This course will enable the delegates to:**

- Build an understanding of the essential types of gas and oil contracts
- Refresh the trainees on the methods to assess the supplier performance
- Grow and enhance the skills and expertise in the ways to manage the performance of a contractor
- Good practices should be intensified while developing the statements of work
- Provide the delegates to fix and negotiate the disputes of a supplier
- Emphasize the essential tips to consider and tricks to avoid while purchasing services or materials

## **Who Should Attend?**

### **Personnel who can attend this course are:**

- Executives and managers in finance, procurement, legal, supplier and risk relations department
- Managers, senior executives, directors, and decision makers who are responsible and involved in the operational and strategic functions
- Administrators, Engineers and other professionals involved in an operational capacity with suppliers and contractors

## **8. Energy Finance Masterclass**

### **Overview:**

Corporations involved in the energy sector need executives who understand the extreme volatility of global energy markets and how to manage the financial risks created by changing energy prices. This program is designed to give participants an in-depth understanding of energy finance by addressing three areas of finance in an energy context: Pricing, asset valuation and risk management.

The course will increase your comprehension of the energy markets, as well as demonstrate how to model and forecast energy and forward/futures prices. The course will build knowledge of energy-related derivatives, including the different derivative products and how to apply them in the energy markets to develop hedging and risk management strategies.

### **Training Outcomes:**

The main objective of the Energy Finance training program is to equip professionals with the following—

- The processes, systems for energy conversion and distribution
- Understanding the economic rationale behind energy exploration, development, capital budgeting, option pricing and risk management
- Understanding the deep relation of energy and environmental problems
- Understanding various energy resources their advantages and disadvantages and their role in modern society
- Interrelationships between use of Energy, progress in industrial and environmental issues
- Microeconomic Fundamentals of Energy Finance
- Understanding basic techniques for the valuation of forwards, futures, swaps, and vanilla options (calls and puts)
- Recognize the facts of risk management with respect to energy risk
- The necessary skills and experience to train other professionals regarding best practices of energy finance
- The experience and exposure to address relevant aspects of climate change, energy policy, etc.
- The overall skill set and capabilities to effectively manage the energy finance and have potential and new opportunities for career growth and development

**Who should attend?**

- Executives and managers responsible for managing energy finance
- Policymakers who create organisational energy policies
- Senior managers and directors of an organization who need to understand energy finance and its potential in detail
- Financial analysts and officers involved in the financial aspects of energy finance
- Strategists and analysts responsible for performing detailed and accurate energy demand and supply analyses
- Employers working in interested in global energy finance

## **9. Operational Safety for the Oil & Gas Industry**

**Overview:**

Participants attending the course will have an overview of the safety and environmental issues in the petroleum industry. It will provide detailed understanding of the methods and techniques to resolve these key issues for making petroleum production and processing, cleaner and safer. This course would educate the participants to identify and assess hazards in any stage of operation, to quantify and manage them as well. This course will also highlight lessons learnt from the past accidents.

**Training Outcomes:**

The training course on Operational Safety for The Oil & Gas Industry aims to help participants to develop the following critical objectives:

- Safety assurance and assessment in design and operations.
- It will also explain how to conduct hazard classification and assessments.
- Deal with accident modelling, risk assessment and management
- Different safety measures in design and process operations.
- A few case studies from offshore and petroleum industry will be also discussed
- Address various environmental issues and management that arise from drilling and oil exploration

**Who should attend?**

This training course is suitable for a wide range of professionals, but will be particularly beneficial to:

- Operations and Maintenance Personnel – Supervisors, Engineers, Team Leaders
- HSE personnel
- Departmental safety officers
- Safety representatives
- Newly appointed Health and Safety Advisers
- Anyone who needs to have a better understanding of operational safety