

CAPACITY DEVELOPMENT AND CPD UNDER THE PARC : THE TRAINING MODULES

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AMDC
African Minerals
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TRAINING MODULES
for
**Pan-African Resource Reporting Code
(PARC)**

TRAINING MODULES

FOR ACCREDITATION AND
CONTINUOUS PROFESSIONAL DEVELOPMENT
OF COMPETENT PERSONS

**Under The Pan-African Public Resource Reporting
Code for Minerals and Energy Resources**



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GENERAL INTRODUCTION

MODULE 1: INTRODUCTION TO AMREC AND PARC

MODULE 2: ETHICS AND PROFESSIONAL CODE OF CONDUCT

MODULE 3: COMPETENCY AND RESPONSIBILITY

MODULE 4: GENERAL REQUIREMENTS FOR MINERALS AND ENERGY REPORTING UNDER PARC

MODULE 5: MINERALS REPORTING

MODULE 6: REPORTING OF ENERGY RESOURCES

6.1 Petroleum Reporting

6.2 Renewable Energy Reporting

6.3 Coal Reporting

6.4 Nuclear Fuel Resource Reporting

MODULE 7: REPORTING OF ECONOMIC RESULTS, ECONOMIC OPPORTUNITIES AND SOCIAL BENEFITS

MODULE 8: ENVIRONMENTAL AND SOCIAL REPORTING

MODULE 9: REPORTING FOR ARTISANAL AND SMALL-SCALE MINING (ASM)

MODULE 10: ROLE AND RESPONSIBILITIES OF RECOGNISED PROFESSIONAL ORGANIZATION AND PARC ASSESSMENT COMMITTEE

Introduction

- One of the important imperatives for the effective operation of mineral codes and standards globally is the training of competent persons that leads to their accreditation under such standards and codes.
- In addition, it provides an avenue for Continuous Professional Development (CPD) for stakeholders in the mining and energy resource industry. AMREC is the policy document that gave rise to the (PARC). They respectively, the policy and standard for the effective management and development of minerals and energy resources in Africa.
- in addition to membership of recognized RPOs and the requisite mandatory experience

- **CORE MODULES**

Accreditation of competent persons (CP) under PARC should include

- evidence of satisfactory performance in the assessment **of module 1 and module 2, which are mandatory.**
- Apart from the two mandatory modules, a CP is expected to complete an assessment **for any one of the specialized modules depending on the preferred area of specialisation.**
- The mode of delivery of the training will either be in
 - person, hybrid, or online, as decided by the PARC Assessment Committee.
 - The Assessment criteria and benchmarks will be determined periodically by the committee.
 - The duration and target audience for each module is based on the mode of delivery and peculiarity of each module.

- MODULE 1:
- Introduction To AMREC And PARC
- This is a core module and offers a basic understanding of the African Minerals and Energy Resource Classification and Management System (AMREC) and the Pan African Resource Reporting Code (PARC),
- the genesis,
- evolution,
- principles and scope.
- The historical background,
- Overarching frameworks and governance imperatives of the minerals and energy sector in Africa.
- Aim
- To provide a historical background of the minerals and energy sector in Africa, discuss justification
- and elucidate on the fundamental concept of the AMREC and PARC.

Objectives

- a.) To provide the basic knowledge of the evolution and trends of the mining and energy industry and their contribution to the economic and social development of Africa from historical to contemporary times.

To provide broad knowledge of the foundational and background policies and the diverse mining and energy governance framework across Africa.

Introduce the basic concept, principles, scope, and associated governance links between AMREC and PARC.

Expected outcomes

- At the end of the module, it is expected that participants will be able to:
- Understand the historical context and peculiarities of the mining and energy industry in Africa
- Have a broad perspective of background policies and justifications for the development of AMREC and PARC.

- **Target participants**

- This is a core module and mandatory for all mining and energy resources stakeholders who are
- seeking accreditation as competent persons under PARC.

- **MODULE 2:**
- **ETHICS AND PROFESSIONAL CODE OF CONDUCT**
- Ethical and professional codes of conduct are foundational principles that govern the behaviour of competent persons in their reporting of mineral and energy resources.
- These principles ensure the resource projects are clearly reported, transparently, based on material evidence, written by competent persons and offer social and environmental benefits
- . This module is designed to instill the highest level of ethics and professionalism in reporting because adhering to ethical public reporting and professional code of practices builds confidence in the report and boosts investment.

Aim

- To ensure competent professionals who are responsible for writing public reports understand compliance with PARC reporting requirements.

Objectives

- a.) Promoting Transparency: Ensuring clear and honest reporting of resources,
- b.) Fostering Accountability: Holding organisations and individuals responsible for their actions,
- c.) Ensuring Fairness: Promoting equity and impartiality in resource management,
- d.) Encouraging Integrity: Upholding high moral standards and honesty, and
- e.) Building Trust: Establishing reliable and trustworthy practices in the industry.

- **Expected Outcomes**

- At the end of the course, participants should be able to understand:
- a.) The importance of ethical reporting,
- b.) The roles and responsibilities of reporting professionals include being held liable for the content of what they report,
- c.) How to navigate situations that could result in a conflict of interest.

- **Target Participants**

- This is a core module and mandatory for all mining and energy resources stakeholders who are seeking
- accreditation as competent persons under PARC.

- **MODULE 3:**

- **COMPETENCY AND RESPONSIBILITY**

- Competency and responsibility in public reporting are key for putting skills, knowledge and experience to
- performing activities effectively and efficiently for resource management and reporting.
- This is important to boost and maintain the confidence of stakeholders involved in the mining and energy industry.

- **Aim**

- This training module aims to elucidate the concept of competency and responsibility as applied under
- PARC.

- **Objectives**

- To provide an understanding of the concept of competency for reporting under PARC.
- To enlighten participants on the principles, responsibilities, liabilities, and benefits of competency.
- To discuss the multi-faceted reporting requirements of the different mineral and energy resource types and environmental and social responsibility.

- **Expected Outcomes**

- At the end of the training, participants will have understood the essence and concept of competency and responsibility for reporting as a requirement under PARC.

- **Target Participants**

- This module is designed for all stakeholders involved in the Minerals and Energy industry who desire to use PARC.

- MODULE 4:
- GENERAL REQUIREMENTS FOR MINERALS AND ENERGY REPORTING UNDER PARC
- The PARC is developed with the view of universal applicability to both minerals and energy resources.
- This means that in public reporting of Viable Projects and Potentially Viable Projects, there are general requirements expected of all reports.
- This module is, therefore, designed as a training package on the general reporting requirements applicable to all public disclosures of Viable and Potentially Viable Projects under PARC.
- PARC provides unified reporting templates for minerals and energy resources across the continent.
- This code is based on key elements that include
 - (i) unified classification of resources,
 - (ii) principles of reporting,
 - (iii) competency and responsibility of the professional in charge of reporting.
- Aim
 - The aim of the module is to provide general guidelines and requirements for reporting for minerals and
 - energy resources projects under PARC.
- Objectives
 - To provide a basic understanding of project classification using the AMREC classification system.
 - To discuss resource evaluation and classification for minerals and energy projects.
 - To emphasise the role of competent persons in reporting.
 - To outline the minimum content of the report for the respective minerals and energy resource types.
 - To discuss requirements applicable to all disclosures.
 - To provide guidance on regulatory and governance issues.

Expected Outcomes

- At the end of the training, participants should be able to:
- Understand criteria for generic classification of minerals and energy projects,
- Define and classify projects by Categories and Sub-Categories,
- Define the levels of confidence in resource estimates and the technical feasibility of a project,
- Inform decision on the category of the environmental and socio-economic viability of projects,
- Know about all the requirements for Potentially Viable and Viable Projects used for their information
- disclosure.
- Understand the reporting requirements applicable to all disclosures
- Appreciate the regulatory and governance issues associated with minerals and energy resources reporting under PARC.
- **Target Participants**
- This is a prerequisite module for participants seeking accreditation as competent persons for specific
- resource types under PARC.

- MODULE 5: MINERALS REPORTING

- Aim

- The module aims to provide an understanding of a standardized technical reporting format that includes all relevant data on mineralization style and those that could materially affect the social, environmental, and economic value of the deposit.

- Objectives

- The objectives of the module are to:
 - Provide information on key requirements for the completion of a competent person's report (CPR) for minerals and its endorsement by competent persons (CPs).
 - Provide an outline of the content of a CPR as well as the reporting template for metallic, non-metallic and development minerals.

- **Expected Outcomes**
- At the end of the course, participants should be able to report generally on Potentially Viable minerals comprising metallic, non-metallic, and development minerals specifically.
- Understand key principles of reporting for minerals.
- Understand criteria and project classification, including the role of controlling and geological factors in the assessment by the competent person (CP).
- Understand the tonnage and grade estimate classification framework and the relationship with different levels of geoscientific confidence and different degrees of technical, social, environmental and economic evaluation.
- Establish the relationship between the potentially recoverable estimates and recoverable estimates with the project classification.
- Be aware of CPs self-assessment criteria for Potentially Viable and Viable projects.
- Know about geological knowledge and confidence level for the G-axis in mineral resource estimates.
- Get a deep understanding of criteria for resource estimation and reporting on Potentially Viable and Viable Projects for minerals.

- Have clear insights on methods used for resource estimates of Potentially Viable and Viable Projects for minerals.
- Define and categorise the development minerals and the importance of general factors when
- completing the resource estimates for development minerals.
- Know the key principles that guide the reporting of estimates for Potentially Viable Projects or Viable
- Projects of development minerals and related requirements, including the self-assessment criteria for
- Competent Person, Competent Valuator and Competent Expert.
- **Target Participants**
- Professionals and other stakeholders operating in the mineral industry, including but not limited to mining geoscientists, mining engineers, aspiring mining professionals, Public/Private managers of mining companies, mining Policy and Regulators and stock exchange personnel

- **MODULE 6: REPORTING OF ENERGY RESOURCES**

- This module is designed to provide guidance on requirements for reporting viable and potentially viable energy projects.

- Petroleum Reporting

- Petroleum projects, by nature, are capital intensive, and their development relies heavily on private
- sector investments. For this reason, most oil and gas companies are listed on the stock exchange, where
- periodic reporting and updates of their portfolios are required. This section provides the basis for
- minimum disclosure of Information for public reporting of oil and gas Viable Projects and Potentially Viable Projects.

- **Aim**

- To provide an understanding of reporting requirements as a basis for minimum disclosure of information for public reporting of oil and gas Viable Projects and Potentially Viable Projects.

- **Objectives**

- To discuss the scope of the oil and gas activities covered under PARC and their relevance to petroleum reporting.
To show the link between the general reporting requirements and its application to the specific definitions of oil and gas activities.
- To discuss the minimum requirements and content of a petroleum public report.

- **Expected outcome**

- At the end of this module, the participants should:
- Understand the terminologies used and their application to petroleum projects.
- Be able to prepare a competent person's report for viable and potentially viable petroleum projects.

- **Target Participants**

- Professionals and other stakeholders operating in the petroleum industry, including but not limited to

- **Renewable Energy Reporting**

- Renewable energy projects are pivotal in transitioning to a sustainable, low-carbon future,
- Renewable energy sources, including solar, wind, hydro, geothermal, and bioenergy, provide sustainable alternatives to fossil fuels, offering environmental, social, and economic benefits.
- This module is, therefore, designed to provide guidance on reporting of Viable and Potentially Viable renewable energy projects.

- **Aim**

- To provide guidance for the transparent and accountable public reporting of renewable energy projects.

- 6.2.2 Objectives

- a.) To ensure stakeholders can assess renewable energy projects' environmental, social, and economic viability.
- b.) To promote the adoption of renewable energy sources by providing precise and consistent reporting methodologies.
- c.) To support the implementation of sustainable practices in renewable energy development.

- **Expected Outcomes**

Enhanced understanding and application of standardized PARC reporting for renewable energy projects.

Improved transparency and accountability in renewable energy project development.

- Increased stakeholder confidence and support for renewable energy initiatives.
- Alignment with the African Mining Vision (AMV), Agenda 2063, and Sustainable Development Goals (SDGs).

- **Target Participants**

- This module is designed for stakeholders involved in renewable energy projects.

Coal Reporting

- Historically, Coal has played a pivotal role in the global energy mix, providing a reliable and cost-effective energy source for industrialisation and economic development
- This module provides guidance on reporting Viable and Potentially Viable coal projects.
- **Aim**
 - To establish standardized guidance for the public reporting of coal projects, emphasizing sustainable practices and compliance with regulatory frameworks.
- **Objective**
 - To provide a clear understanding of the methodologies for exploring and evaluating coal resources.
 - To ensure coal project reporting aligns with AMREC and PARC standards.
 - To promote sustainable development in coal-dependent regions.
- **Expected Outcomes**
 - Enhanced knowledge of coal exploration and evaluation techniques.
 - Improved reporting accuracy and transparency in coal projects.
 - Increased awareness of coal projects' environmental, social, and economic impacts.
 - Support policies and compliance with international best practices and standards.
- **Target Participants**
 - This module is designed for stakeholders involved in the coal industry.

- **Nuclear Fuel Resource Reporting**

- Nuclear fuel resources, specifically uranium and thorium, play a crucial role in the global energy mix because they produce large amounts of electricity with minimal greenhouse gas emissions.

- This module provides reporting standards for nuclear fuel as contained in PARC.

- **Aim**

- To provide detailed guidelines for the public reporting of uranium and thorium projects, ensuring compliance with international standards and promoting sustainable development.

- **Objectives**

- To offer comprehensive methodologies for exploring and evaluating uranium and thorium resources.
- To ensure transparency, accountability, and accuracy in reporting nuclear fuel projects.
- To address environmental, social, and economic challenges of nuclear fuel resource development.

- **Expected Outcomes**

- Improved understanding of the global nuclear fuel value chain and local value addition.
- Enhanced competency in exploring, evaluating, and reporting uranium and thorium projects.
Increased stakeholder confidence through adherence to PARC standards and best practices.
- Promotion of sustainable development goals, particularly in the context of clean energy and climate action.

- **Target Participants**

- This module is designed for stakeholders involved in the nuclear fuel industry.

- **MODULE 7:**
- **REPORTING OF ECONOMIC RESULTS, ECONOMIC OPPORTUNITIES AND SOCIAL BENEFITS**
- Africa is endowed with natural and energy resources; however, the wealth generated at the local and national levels is still very low. A public report should present the economic results and the economic opportunities, including social benefits related to each stage of the project, to all the stakeholders to maintain the social license to operate.
- **Aim**
- The aim of the module is to provide participants with standardized technical reporting of the economic results and economic opportunities, including social benefits related to each stage of the Potentially Viable and Viable Projects.
- **Objectives**
- To bring insight into how to implement mechanisms for the active involvement of locals in order to create added value and promote sustainable development.
- To discuss the reporting template on economic opportunities at the local and national levels.
- **Expected Outcomes**
- At the end of the course, the participants should be able to:
 - Understand the principles of reporting economic opportunities and social benefits.
 - Make informed decisions based on economic assessment/valuation results of mineral and energy project.
 - Carry out inventory and build a directory of opportunities for the mining and energy resource projects
 - Develop an inventory of potential social benefits for the local communities.
 - Report information on economic opportunities and social benefits.
 - Develop a template for sharing information on economic opportunities and social benefits.
- **Target Participants**
- Professionals and other stakeholders operating in the mineral industry including but not limited to
 - mineral economists, mining geoscientists, mining engineers, aspiring mining professionals,
 - Public/Private managers of mining companies, mining Policy and Regulators and stock exchange
 - personnel.

- **MODULE 8:**
- **ENVIRONMENTAL AND SOCIAL REPORTING**
- It is generally accepted that the development of minerals and energy resources can be environmentally destructive and cause social disruption. This has necessitated the development of policies and regulations that protect the environment.
- The PARC Environmental and Social Reporting promotes transparency, accountability, sustainability, and innovation in the African resource sector.
- This module provides the minimum disclosure of information for public reporting of environmental and social aspects relating to viable and potentially viable projects,

Aim

- The module aims to present the guidelines and minimum content of environmental and social reporting under PARC.

- **Objectives**

- Provide guidance for the Environmental and Social Impact Assessment (ESIA) process.
- Provide the framework and methodology for international best practices in assessing, managing,
- and reporting environmental and social impacts.

- **Expected outcomes**

- At the end of the training, participants are expected to be able to:
- Understand the best practices for undertaking the ESIA.
- Produce an ESIA report that complies with the PARC.

- **Target Participants**

- This module is designed for all stakeholders in the mining and energy resource industry.

- **MODULE 9: REPORTING FOR ARTISANAL AND SMALL-SCALE MINING (ASM)**
- In Africa and many other resource-rich developing countries, Artisanal and Small-scale Mining (ASM) is an important source of minerals and metals which provides a livelihood for millions of people and is a major source of economic development. However, most ASM projects are not likely to end up being listed as public companies. Notwithstanding, potential investors may be interested to see technical reports of ASM projects that follow internationally acceptable reporting standards that may provide the basis form development into potential large-scale mining.
- **Aim**
- The aim of the module is to provide a standardised reporting format for ASM operations in Africa.
- **Objectives**
- To provide the details of the important scientific and relevant technical information regarding the operations and development activities of the ASM projects.
- Build the confidence of the investors, governments and the public by knowing that a competent person has evaluated the project.
- Guide interested and potential investors in investing in ASM operations.
- **Expected Outcomes**
- At the end of the module, participants should:
 - Be familiar with the concepts of ASM operations in Africa with statistical information and data across the African continent.
 - Be familiar with the guidelines of PARC and the code of ethics for public reporting.
 - Be informed of the role of competent persons and the minimum information input required for an ASM report.
 - Well-informed of the requirements for a standard ASM technical report.
 - Prepare an ASM report containing verifiable information that may be of interest to investors.
- **Target Participants**
- Mineral resource evaluation professionals, competent persons involved in ASM and relevant stakeholders in the mineral industry.

- **MODULE 10: ROLE AND RESPONSIBILITIES OF RECOGNISED PROFESSIONAL ORGANIZATION**
- **AND PARC ASSESSMENT COMMITTEE**
- Recognised Professional Organisations (RPOs) and the PARC Assessment Committee play vital roles in
- the registration and accreditation of competent persons in accordance with PARC.
- This module provides a basic understanding of AMREC and PARC, governance, accreditation process and the
- concept of reciprocity with other institutions outside Africa.
- **Aim**
- To sensitise the representatives of RPOs and the PARC Assessment Committee on their
- roles, responsibilities and limitations as governance entities under PARC.
- **Objectives**
- To familiarise the RPOs with the PARC Assessment Committee and discuss their respective roles as
- governance entities of the PARC.
- To sensitise RPOs and the PARC Assessment Committee on the principles of PARC as they relate to
- their responsibilities and limitations.
- **Expected Outcomes**
- At the end of this module, it is expected that representatives of RPOs and the PARC Assessment
- Committee will better understand their respective roles, responsibilities and limitations under PARC to
- promote synergy in the execution of their roles.
- **Target Audience**
- This module is designed for representatives of RPOs and the PARC Assessment Committee.

Thank You for your Attention