



## AMGC Director General's Message



**Pursue to the courtesy visit paid by Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC) on 3<sup>rd</sup> August 2023 to H.E. Ricardo Mtumbuida, the High Commissioner of**

**Mozambique in Tanzania, was kind enough to pay a familiarization visit to AMGC on 16 August. H.E. Mr Shibru Mamo Kedida, the Ambassador of Ethiopia in Dar es Salaam, Tanzania paid a familiarization visit to the Centre on Wednesday 23<sup>rd</sup> August, 2023. It was also pursue to the courtesy visit paid by the Director General of AMGC on 18<sup>th</sup> August to the esteemed Embassy of the Republic of South Sudan in Tanzania, H.E. the Ambassador Gen. (RSO) Loyang Okot Johnson Jekery, Head of Mission of the Republic of South Sudan in Tanzania paid a familiarization visit to AMGC on 30<sup>th</sup> August 2023. The Director General of AMGC congratulated Mr. Matokeo Simba, the Manager of Petrology, Mineralogy & Gemmology Department for completing his Gemmology studies on 16<sup>th</sup> August 2023 and awarded a certificate to the Gemmological Institute of America (GIA).**

## Contents

**Courtesy visit of the Director General of AMGC to H.E. Ricardo Mtumbuida, the High Commissioner of Mozambique in Tanzania** Page 1

**Familiarization visit of H.E. Ricardo Mtumbuida, the High Commissioner of Mozambique in Tanzania to AMGC** Page 2-3

**Courtesy visit of the Director General of AMGC to the esteemed Embassy of the Republic of South Sudan in Tanzania** Page 4

**Familiarization visit of H.E. Mr. Shibru Mamo Kedida, the Ambassador of Ethiopia in Dar es Salaam, Tanzania to AMGC** page 5-6

**Congratulation of AMGC to Mr. Matokeo Simba, the Manager of Petrology, Mineralogy & Gemmology Department** Page 7

**Familiarization visit of H.E. the Ambassador Gen. (RSO) Loyang Okot Johnson Jekery, Head of Mission of the Republic of South Sudan in Tanzania to AMGC** Page 8-10

**Appreciation & Gratitude** Page 11

**Events** Page 12-14

**New Courses** Page 15

**New Trainings** Page 16-17

**Training List** Page 18-19





**Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC) paid a courtesy visit to H.E. Ricardo Mtumbuida, the High Commissioner of Mozambique in Tanzania in his esteemed office on Thursday, 3<sup>rd</sup> August, 2023. The Director General of AMGC expressed his sincere gratitude and appreciation to the Government of Mozambique for fulfilling its financial commitments to the Centre, which enabled the Centre to implement its activities to its highest peak. H.E. the High Commissioner of Mozambique assured the sustainable support of Mozambique to the Centre. Mozambique one of the founding member states of AMGC, has been unreservedly supporting the Centre since its establishment in 1977. Mozambique has been also among the leading member states that are using the Centre's mineral services. The Centre looks forward for a continued support from Mozambique. Due to Mozambique's significant contribution to the running of the AMGC as continental Centre of Excellence, had shouldered three times hosting Policy Organ Meetings of the Centre (i.e. 8<sup>th</sup> Governing Council Meeting held on 2-3 October 1987, 18<sup>th</sup> Governing Council Meeting held on 5 August 1998 and 27<sup>th</sup> Governing Council held on 31 May 2007) as well as more than four times the responsibility of chairing the Governing Council of the Centre. Out of the six Directors General managing the Centre since 1977, Mozambique was elected in 1996-2002 to manage the Centre by Dr. Antonio Maria Pedro, the current Acting Executive Secretary of the Economic Commission for Africa (UNECA). Mr. Elias Xavier Daudi, the National Director of the Directorate of Geology and Mines of Mozambique at the Ministry of Mineral Resources and Energy in Mozambique is a member of the AMGC Standing Committee of Officials while Mr. Horacio Belengueze, the Mineral Processing Engineer at the Ministry of Mineral Resources and Energy of Mozambique is a member of the AMGC Board of Directors.**





**H.E. Ricardo Mtumbuida, the High Commissioner of Mozambique in Tanzania paid a familiarization visit to the African Minerals and Geosciences Centre (AMGC) on 16 August 2023. H.E. the High Commissioner was accompanied by two diplomats who are Mr. Momed Salim Khan, the First Secretary and Mr. Osvaldo Abudo, the Protocol Officer.**









**Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC) paid a courtesy visit to the esteemed Embassy of the Republic of South Sudan in Tanzania on 18<sup>th</sup> August 2023. The Director General met both Ambassador General (RSO) Loyang Okot Johnson Jekery, the Head of Mission of the Republic of South Sudan in Tanzania and H.E. Ambassador Deng Obed Madol Majok, the Deputy Head of Mission. Mr. Ibrahim Shaddad briefed H.E the Head of Mission regarding the development of the Centre, vision and mandate in provision of mineral services including training, consultancy and analysis to the mining sector and geosciences community in Africa. Furthermore, Mr. Shaddad brought to the kind attention of H.E the Head of Mission that the Centre was honored on 24<sup>th</sup> February, 2022 by a familiarization visit paid by a high level delegation from the Government of South Sudan led by Hon. Martin Gama Abucha, the Minister for the Ministry of Mining. The high level delegation expressed the interest of the South Sudan to join the Centre. Consequently AMGC has been communicating with both the esteemed Ministry of Mining of South Sudan as well as with the Embassy of the South Sudan in Dar es Salaam, Tanzania on various issues including completion of the procedure of joining the membership of the Centre and becoming among its concentrated driving force. H.E the Head of Mission appreciated the courtesy visit paid by the Director General and welcomed the efforts of the Centre to provide its mineral services to South Sudan so as to facilitate the development of its geoscience community and mining industry. An open invitation was extended to H.E the Head of Mission accompanied by his senior assistant diplomats to pay a familirization visit to AMGC at any time convenient. The much appreciated visit is expected soon.**





**H.E. Mr. Shibru Mamo Kedida, the Ambassador of Ethiopia in Dar es Salaam, Tanzania paid a familiarization visit to the African Minerals & Geosciences Centre (AMGC) On Wednesday 23<sup>rd</sup> August, 2023. H.E. the Ambassador of Ethiopia was received by Mr. Ibrahim Shaddad, the Director General of AMGC. Mr. Shaddad briefed H.E. Mr. Shibru regarding development and challenges facing the Centre. H.E. the Ambassador of Ethiopia, assured the sustainable support of Ethiopia to AMGC and maximize its beneficiation from mineral services provided by the Centre including training, analyses and consultancy. AMGC sincerely recognizes about the outstanding commitments and obligations of the Government of Ethiopia to the Centre that enabled it to implement its activities to its highest peak. Due to Ethiopia's significant contribution to the running of the Centre, shouldered more than three times hosting Policy Organ Meetings of the Centre as well as ten times the responsibility of chairing the Governing Council. Ethiopia was elected Chair of the Board of Directors of the Centre from 1997 to 2006 chaired by Mr. Ketema Tadessa, former Director General of the Geological Survey of Ethiopia (GSE). In 2006 the Ethiopian Mr. Ketema Tadesse, was appointed the fifth Director General of the Centre, and Angola took over the chairmanship of the Board of Directors. When the term of Mr. Ketema as the Director General of the Centre ended in 2015, Ethiopia resumed back its chairmanship for the Board of Directors and is serving up to now. From 2015 to 2019 the Board of Directors was chaired by Mr. Masresha Gebreselassie, former Director General of the GSE, from 2019 to January 2022 by Ms. Enatfenta Melkau Gebre, former Director General of the GSE and from January 2022 up to now by Dr. Dejene Hailemariam, current Director General of the GSE. Out of the six Director Generals managing the Centre since 1977, Ethiopia was elected twice to manage the Centre, the first Director General was Mr. Mahdi Shumburo from Ethiopia, who served for nine years during 1978-1986 and the fifth Director General was Mr. Ketema Tadesse who served for nine years during 2006-2015. It is worth mentioning that the Centre's current premises in Dar es Salaam, Tanzania was constructed in 1990/91 and both the consulting architect and the contractor who built the buildings were Ethiopian companies, Getachew Bekele Architect and Berta Construction Company, respectively.**



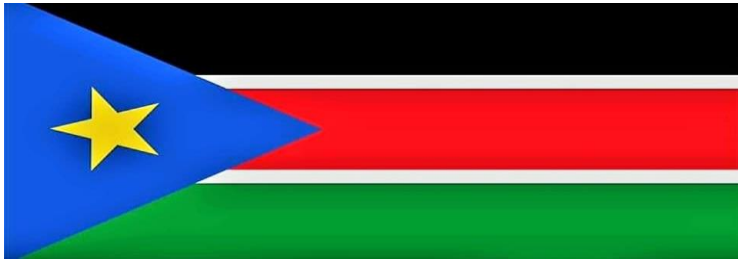






On behalf of the African Minerals and Geosciences Centre (AMGC), Mr. Ibrahim Shaddad, the Director General of AMGC would like to congratulate Mr. Matokeo Simba, the Manager of Petrology, Mineralogy & Gemmology Department for completing his Gemmology studies on 16 August 2023 and awarded a certificate to the Gemmological Institute of America (GIA), which is the world's foremost authority on diamonds, coloured stones and jewellery. GIA is the leading source of knowledge, standards, and education in gems and jewellery. Mr. Simba was awarded a scholarship and studying opportunity to the GIA for the online Gemmology course on coloured stones essential, diamonds and jewellery design so that to enhance his working capacity at AMGC. We do believe that with the knowledge he has acquired will enhance his working capacity and help him to upgrade performance of his daily professional activities at the Centre especially to Gemmology Section. Having a GIA education is extremely important to him and the Centre because it's a level of trust and expertise that is only possible through rigorous training. Furthermore, he has already joined a GIA Alumni collective community a place where he can participate in chapter events, register for continuing education seminars and workshops, and collaborate with his fellow GIA Alumni worldwide. Mr. Simba has expressed his warmest gratitude first to the Management of AMGC for its profound support, recommending him to the GIA Scholarship in order to get gemmology studies opportunity. Secondly to the GIA Scholarship team for awarding him 2023 GIA Scholarship - International Online courses. He really appreciates the Management leadership and GIA Scholarship team for kindness and support towards this achievement from the beginning of my studies to the end. Mr. Simba also expressed his gratitude for the Management trust on him and he is really happy to develop his carrier on Gemmology.





**H.E. the Ambassador Gen. (RSO) Loyang Okot Johnson Jekery, Head of Mission of the Republic of South Sudan in Tanzania paid a familiarization visit to AMGC n 30 August 2023. H.E. the Ambassador Gen. (RSO) was accompanied by: -**

- 1- Hon. Peter Lomude Francis MP and Chairperson of the Constituency Development Fund (CDF) Committee Transitional National Legislative Assembly.**
- 2- Mr. Kual Amath Alor, Second Secretary and media, Information and Press Officer.**
- 3- Mr. Fris Peter Natale, Third Secretary, Protocol Officer.**

**Mr. Ibrahim Shaddad, the Director General of AMGC had the pleasure on behalf of the Centre to receive, welcome warmly, brief and escort the distinguished visitors on a familiarization tour to various technical units and departments providing mineral services including training, consultancy and analysis to the mining sector and geosciences community in Africa and elsewhere. H.E. the Ambassador and the Hon. MP commended vision and mandate of the Centre and the much-appreciated services particularly training provided by the Centre. Furthermore, the two South Sudanese dignitaries committed themselves to follow closely implementation of expression of interest of the South Sudan to join the Centre and completion of the procedure of joining the membership of the Centre and becoming among its concentrated driving force. It is worth mentioning that, AMGC was honored on 24<sup>th</sup> February, 2022 by a familiarization visit paid by a high-level delegation from the Government of South Sudan led by Hon. Martin Gama Abucha, Minister for the Ministry of Mining. The high-level delegation expressed the interest of the South Sudan to join the Centre. Consequently, AMGC has been communicating with both the esteemed Ministry of Mining of South Sudan as well as with the esteemed Embassy of the South Sudan in Dar es Salaam, Tanzania on various issues including completion of the procedure of joining the membership of the Centre and the aim of becoming among its concentrated driving force.**







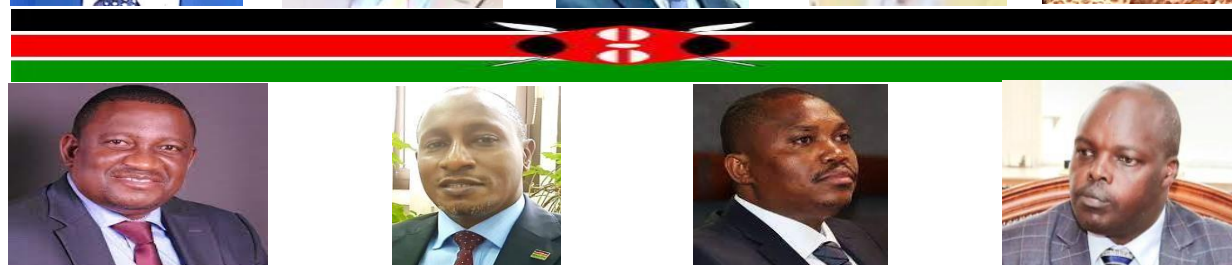
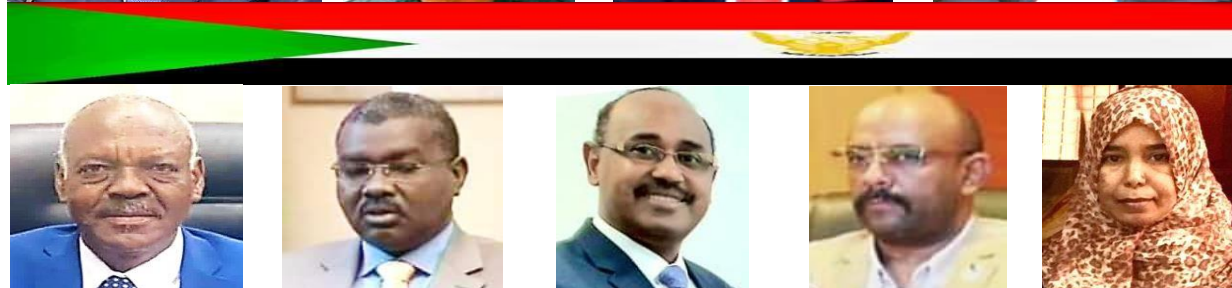
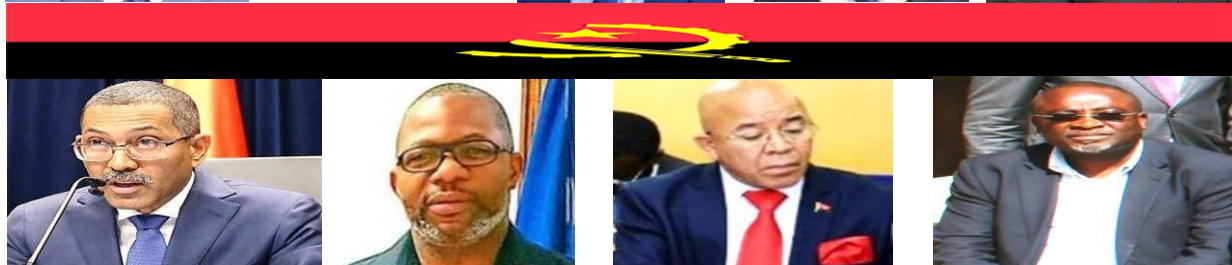






## APPRECIATION & GRATITUDE

The African Minerals and Geosciences Centre (AMGC) would like to express much appreciation and gratitude to Tanzania, Angola, Sudan, Kenya, Uganda and Mozambique for fulfilling their financial commitments to the Centre.





# EVENT

CAG29 Second Circular

## SECOND CIRCULAR



## 29<sup>th</sup> Colloquium of African Geology

"The earth sciences and Africa's development: current realities, future projections"

26 – 29 September 2023 | Windhoek, Namibia

**CALL FOR ABSTRACTS**



The Lion's Claw, a distinctive rock formation at the World Heritage site of /Ui-//aes, also known as Twyfelfontein in the Kunene Region, Namibia

"Namibia the World's Geological Paradise"

Spearheaded by the Geological Survey of Namibia



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# Unlocking Tanzania's Future Mining Potential

## Tanzania Mining & Investment Forum 2023 In Numbers

2000 Attendees	700 <sub>sqm</sub> Exhibition	700 Delegates	100 Exhibiting Companies	90 Ministerial, Governmental & Industry Speakers	35 Networking Hours	25 Countries Represented	20 Conference Sessions
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## 2023 Dignitaries & Industry Leaders Confirmed To Speak Include

 Hon. Doto Biteko Minister of Minerals, Ministry of Minerals United Republic of Tanzania	 Hon. Ruth Nakanbirwa Minister of Energy and Mineral Development Uganda	 Hon. Monica Chang'anamuna Minister of Mining Malawi	 Stephen Mullaney Chief Executive Officer, Director TRX Gold	 Justyn Wood CEO/Executive Director Noble Helium
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## With Thanks To Our 2023 Sponsors & Partners To Date

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## 2023 ANNUAL CONFERENCE

Zanzibar



Golden Tulip Hotel Zanzibar Airport

OCTOBER



**Abstract Submission Deadline**  
Submit at [info@tgs.or.tz](mailto:info@tgs.or.tz)



NOVEMBER

**Pre Conference Excursion**  
Excursion is only for 80 peoples,  
**First come first served**

NOVEMBER



**Conference**



## New Courses




**AMGC**

**New Courses**

The Mineralogy, Petrology and Gemology Department is happy to announce the following new training courses

1

Gemstone/Mineral Estimation and Valuation

2

Jewellery Design

3

Gemstone Exploration & Gem Safari's

[www.seamic.org](http://www.seamic.org)

More Info  
[matokeo@seamic.org](mailto:matokeo@seamic.org)





## NEW Training Courses

**African Minerals and Geosciences Centre (AMGC)** is pleased to announce the introduction of four new courses Geostatistics, Petroleum Sciences and Resource Estimation in collaboration with Khartoum based Consulting firm called **Knowledge and Training Centre (KTC)**. The course shall be facilitated by the Director of KTC, Dr. M. Zayed Awad, an eminent specialist in the areas of Geostatistics, resource evaluation, stratigraphy, reporting, training and mentoring, risk and decision analysis, petroleum economics, project management. The training course will be organized in Dar es Salaam at the AMGC training facilities. The following training courses are going to be offered through this collaboration.

### 1. Fundamental of Petroleum Economics

**Duration:** One Week

**Course fee:** US\$ 1,200

This course introduces the participants to requirements for conducting petroleum economics; different stages of the petroleum industry life cycle involving upstream, mid-stream and downstream sectors will be explained. Participants will learn how to construct a Cash Flow Model for oil and gas investment decision. They will also learn how to deal with the different financial components of petroleum cost, and classification of costs into OPEX and CAPEX. Net Cash Flow Stream analysis and computation of economic indicators (Yardsticks) such as NPV, IRR, PBP, MCE and DPI, and their interpretations are essential for petroleum investment decision-making. Cash Flow Adjustment using discount rates is also considered. Types of fiscal regimes will be explained, participant will also learn how to incorporate the fiscal parameters into a cash flow stream.

### 2. Geostatistical Mineral Resource Estimation

**Duration:** One Week

**Course fee:** US\$ 1,700

The course will focus on the fundamentals of Geostatistical application in mining that are required for domain specification that are required for mineral resource estimation and will include hands-on training with Geostatistical software. Geostatistical conditional Simulations may be used to assess the uncertainty associated with the Reserves Evaluation at exploration,



feasibility, and production stages. The simulations provide a range of potential reserves for the ore body's Tonnage, Metal Quantity and Recovered Grade.

### **3. Introduction to Oil and Gas Industry**

**DURATION:** One Week

**Course fee:** US\$ 1,200

This course is designed for a wide-ranging of petroleum industry personnel. It is designed to provide green-hands technical, and a non-technical personnel with practical petroleum industry life cycle. The course covers the key phases of the exploration, development and production industry as well as transportation and refining of crudes oils.

### **4. Geostatistics for Mining - foundation Course**

**Duration:** Two Weeks

**Course fee:** US\$ 2,000

Geostatistics, in combination with other statistical methods, offers a wide range of mathematical tools that can be used to analyze, model, provide estimates and assess uncertainties, for different types of spatial phenomena, for example, grades or geological features. The course will focus on the fundamentals of Geostatistics and statistics and will include hands-on training with Geostatistical software.

#### **THE INSTRUCTOR**



**Dr. M. Zayed Awad**, the former Sudanese Minister for Oil and Gas (September 2014-May 2017) BSc (Hons) from University of Khartoum, Sudan, MSc (Geol) from Technical University of Berlin (TU), PhD (Stratigraphy) from Technical University of Berlin (TU). Dr. Zayed is a university instructor with postgraduate qualifications in petroleum geology, stratigraphy, economic geology, Geostatistics, and relevant application soft wares. He has more than 35 years' experience in university teaching and more than 25 years worldwide experience in

the petroleum industry and training. He has supervised many MSc and PhD research students and reviewed several reports and research papers. He is the founder of Knowledge & Training Center (KTC) in Sudan, and he is active as a trainer since 2003. He worked on many projects and given training courses to hundreds of attendees on many aspects of geology. Dr. Zayed's skills are in Geostatistics, resource evaluation, stratigraphy, reporting, training and mentoring, risk and decision analysis, petroleum economics, project management. Dr. Zayed was the initiator and editor-in-Chief of the book titled "Petroleum Geology and Resources of the Sudan" published by Geozone (Berlin) in 2015.



## LIST OF TRAINING COURSES

Training Topics	Duration	Fee
<b>Finance and Administration Department</b>		
<b>Leadership and Management Skills</b>	2 Weeks	\$1,500
<b>Financial Management Skills</b>	2 Weeks	\$1,500
<b>Executive Secretarial Skills</b>	2 Weeks	\$1,500
<b>Chemical and Environmental Department</b>		
<b>Spectrometric Methods of Analysis.</b>	2 Weeks	\$800
<b>Analysis of Gold and Other Base Metals</b>	2 Weeks	\$800
<b>Quality Management Section</b>		
<b>Laboratory Certification and Accreditation</b>	2 Weeks	\$1,500
<b>Modern Laboratory Management Methods</b>	2 Weeks	\$1,500
<b>Quality Control and Quality Assurance in Laboratories</b>	2 Weeks	\$1,500
<b>Laboratory Safety and Security</b>	2 Weeks	\$1,500
<b>Mineralogy, Petrology and Gemology Department</b>		
<b>Mineralogical and Petrological Sample Preparation and Analytical Techniques</b>	2 Weeks	\$800
<b>Gemstone Identification Techniques</b>	1 Week	\$400
<b>Gemstone Value Addition Techniques</b>	2 Weeks	\$800
<b>Usage of Benchtop X-ray Diffraction (XRD)</b>	2 Weeks	\$800
<b>Gemstone formation, mode of occurrences and mining methods</b>	2 Weeks	\$800
<b>Industrial Minerals Application Department</b>		
<b>Pottery for Beginners</b>	2 Weeks	\$800
<b>Mould Making</b>	2 Weeks	\$800
<b>Forming Techniques</b>	2 Weeks	\$800
<b>Decorations in Pottery and Ceramics</b>	2 Weeks	\$800
<b>Bricks &amp; Tiles Manufacturing [Clays]</b>	2 Weeks	\$800
<b>Glaze Formulation</b>	2 Weeks	\$800
<b>Body Composition Formulation</b>	2 Weeks	\$800



<b>Mineral Processing and Small-scale Mining Department</b>		
<b>Practical Mineral Processing and The Basic Mineral Processing Flowsheet</b>	2 Weeks	\$800
<b>Sampling and Sample Preparation for Laboratory Testing</b>	2 Week	\$800
<b>Artisanal and Small-Scale Mining Activities</b>	2 Weeks	\$800
<b>Techniques of Gold Cyanidation</b>	2 Week	\$800
<b>Mineral Economics</b>	2 Weeks	\$800
<b>Metallurgical Balance and Process Evaluation</b>	2 Weeks	\$800
<b>Extractive Metallurgy – Metallic Ore Deposits, Metal Extraction and Purification Processes</b>	2 Weeks	\$800
<b>Environmental Management in Mining</b>	2 Week	\$800
<b>Geo-information Department</b>		
<b>GIS and Remote Sensing for Mineral Exploration and Geological Mapping</b>	2 weeks	\$800
<b>Best Practices in Mineral Resource Estimation</b>	1 week	\$400
<b>Geodatabase Development for Web mapping</b>	2 weeks	\$800
<b>GIS and Remote Sensing Application for Geohazards</b>	1 week	\$400
<b>Integrated Mineral Exploration Techniques</b>	2 weeks	\$800
<b>GIS and Remote Sensing for Hydrological Applications</b>	1 week	\$400
<b>Open-Source GIS</b>	2 weeks	\$800
<b>Geochemical Exploration and Mapping</b>	2 weeks	\$1,200
<b>Structural Geology and Geotectonics in Mineral Exploration</b>	2 weeks	\$1,200
<b>Fundamental of Petroleum Economics</b>	1 week	\$1,200
<b>Geostatistical Mineral Resource Estimation</b>	1 week	\$1,700
<b>Introduction to Oil and Gas Industry</b>	1 week	\$1,200
<b>Geostatistics for Mining - foundation Course</b>	2 weeks	\$2,000
<b>Prospect Evaluation: Volumetric and Risk Analysis</b>	2 weeks	\$2,000



## African Minerals and Geosciences Centre

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## MINERALOGY, PETROLOGY AND GEMMOLOGY SERVICES

The Mineralogy, Petrology and Gemmology Department utilizes the skills of its staff to address crucial issues in the mineral sector such as lack of technical knowledge on mineral testing and identification, evaluation, grading and value addition techniques.

### EXPERTISE

- ✓ Mineralogical and petrological sample preparation and analysis
- ✓ Mineralogical evaluation of industrial minerals, ore minerals and clays
- ✓ Gemstone identification and grading
- ✓ Specialized training in Gemmology, Gemstone Cutting and Polishing and Mineralogical and Petrological Sample preparation and Analytical Techniques.



Petrography and Gemmological Microscopes

### ANALYTICAL SERVICES

- ✓ Preparation of standard thin sections and polished sections
- ✓ Rock slabbing and polishing
- ✓ Rock core splitting
- ✓ Petrographic examination of thin sections and polished sections
- ✓ Evaluation of industrial minerals, ore minerals and clays
- ✓ Gemstone testing and identification
- ✓ Diamond grading
- ✓ Consultation and Expert opinion



Polishing Machine for Polished Mount Preparation

### TRAINING SERVICES

- ✓ Mineralogical and petrological sample preparation and analytical techniques
- ✓ Gemstone Characterization, Identification and Value Addition
- ✓ Gemstone Identification Techniques
- ✓ Gemstone Value Addition Techniques (Gem Cutting)
- ✓ Gemstone Cabochon making and Carving
- ✓ Gemstone Faceting
- ✓ Gemstone Identification, Value Addition and Trading



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