



# CERTIFIED MINING PROGRAMS FOR PROFESSIONALS AND ARTISANAL MINERS

### **Our Partners and Clients**















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#### **PREAMBLE**

Worldwide, approximately 30 million people depend directly on artisanal mining of many different minerals to provide for themselves and their families. However, poverty and a lack of education and training keep artisanal miners trapped in a cycle of rudimentary practices, which generate both environmental and health impacts. As the needs and motivations of artisanal miners are often ignored, previous attempts to deliver training projects have resulted in little sustained success.

#### **STATEMENT**

It is hard to characterize a general type of artisanal miner's family. In some regions artisanal mining is a secondary source of income for farmers, but in parts of the globe, artisanal mining is the main subsistence activity. Artisanal gold miners are typically poor, hardworking, illiterate, with little or no formal education, under health stresses, malnourished and often somewhat transient. As we consider successful approaches to education, it is helpful for us to remember that miners want to earn more money, and want their families to be healthier and more stable. Therefore, they can be enthusiastic learners.



Figure 1 Artisanal miners going about their work

It is also critical to remember that many may have had no experience of being a "successful learner". Being acknowledged as being good at learning is critical to being confident enough to ask critical questions when we do not understand something. It is also important to establish the link between learning information and changing behaviors. Our goal in training mining families is behavior change. Whether it is using a new piece of equipment effectively, being able to do maintenance on equipment to ensure long-term use, or beginning to take the time to establish burning areas in villages, our primary focus is on establishing behavior change that enhances health and wealth.

#### **OBJECTIVES OF OUR TRAINING PROGRAM**

- Improve the health and safety of artisanal miners by providing training on proper safety protocols, such as wearing personal protective equipment, avoiding hazards, and handling chemicals safely.
- Enhance the technical skills of artisanal miners by providing training in mining techniques, such as excavation, drilling, and blasting, and processing techniques, such as crushing, grinding, and extracting minerals.
- Promote environmental management in artisanal mining by providing training on proper environmental management techniques, such as minimizing soil erosion, protecting water resources, and avoiding the use of harmful chemicals.
- Build the business skills of artisanal miners by providing training on budgeting, record-keeping, marketing, and negotiation.
- Foster compliance with legal and regulatory frameworks by providing training on mining laws, environmental regulations, and labor laws.
- Enhance social and community skills of artisanal miners by providing training on effective communication with other stakeholders, such as local communities, government officials, and other miners.

#### TRAINING PROGRAM

The training program will consist of the following components:

- **Health and safety training**: This component will cover proper safety protocols, such as wearing personal protective equipment, avoiding hazards, and handling chemicals safely.
- **Technical training**: This component will cover mining techniques, such as excavation, drilling, and blasting, and processing techniques, such as crushing, grinding, and extracting minerals.
- **Environmental training:** This component will cover environmental management techniques, such as minimizing soil erosion, protecting water resources, and avoiding the use of harmful chemicals.
- Business skills training: This component will cover budgeting, record-keeping, marketing, and negotiation.
- **Legal and regulatory training**: This component will cover mining laws, environmental regulations, and labor laws.

 Social and community skills training: This component will cover effective communication with other stakeholders, such as local communities, government officials, and other miners.

#### **METHODOLOGY**

The training program will be delivered through a combination of classroom sessions and hands-on training in the field. Participants will be assessed through practical assessments. The training will be delivered by our qualified trainers with experience in the mining sector.



Figure 2 Our team of experts engaging the society and some miners

#### **EXPECTED OUTCOMES**

The expected outcomes of the training program are to:

- Improve the health and safety of artisanal miners by reducing accidents and injuries.
- Enhance the technical skills of artisanal miners by improving the quality of mineral extraction and processing.
- Promote environmental management in artisanal mining by reducing negative impacts on the environment.
- Build the business skills of artisanal miners by improving their ability to manage their operations effectively.
- Foster compliance with legal and regulatory frameworks by improving the understanding of mining laws, environmental regulations, and labor laws.

• Enhance social and community skills of artisanal miners by improving their ability to communicate effectively with other stakeholders.

#### **CONCLUSION**

Our training program is designed to address the challenges faced by artisanal miners in various regions and settings. By improving the skills and knowledge of artisanal miners, we can promote sustainable.

#### **OUR TEAM OF EXPERTS**

No	Technical staff	Qualification	Position in the company
1.	Prof.Andrew	Qualification:	Chief Technical
1.	Muwanaga	✓ Ph.D. in Environmental	Consultant
	(35 years	Geochemistry, Technical, University,	Consonani
	experience)	Brauschweig, Germany	
		✓ MSc. in Engineering Geology,	
		University of Leeds, UK.	
		✓ BSc. (Upper Second Class Honours)	
		(Geology, Chemistry), Makerere	
		University	
		Memberships:	
		✓ NEMA Certified	
		Environmental	
		Practitioner/Auditor	
		✓ Uganda Association for	
		Impact Assessment	
		✓ Geological Society of	
		Uganda	
		✓ Geological Society of Africa	
		√ Leeds Engineering	
		Geological Society	
2	James Ecau	M.Sc Geosciences (Univ.of	General
	(10 Years)	Manchester) and Production, BSc.	Manager and
		Geological Resources Management (MUK)	Team-Lead
		Memberships:	
		√ EAGE	
		✓ Geological Society of	
		Uganda Uganda	
		✓ Geological Society of Africa	
		V Geological society of Affica	
3.	Rodrick Mulinde	1	
	(5 years)	Bsc Geology	Geologist
	Angumenawe	Diploma Workplace Safety and	QHSE Consultant
	Nichodemus	Health, Diploma Environmental	
	(15 years)	Science, Occupational health and	
		safety	
		Certified  ✓ NFROSH	
		INEDGGII	
		✓ IOSH	
		✓ OPITO	

#### **RECENT PROJECTS**

S/N	Projects	Client(s)
1	Jan, 2018 -to-date  Field geological mapping of Marble and Granite Quarries  Geological Sample analysis and interpretation,  Reserve estimation of Marble & Granite quarry for dimension stones	Mechanized Agro (U) Ltd, P.O. Box 16616, Kampala (Project Areas include: Kotido, Mubende and Mukono)
2	<ul> <li>Nov to 2019 Dec,2021</li> <li>Field Geological Mapping</li> <li>Supervision of Core drilling (up to 250m Depth),</li> <li>Core Sampling and Logging of Ultramafic rock formation,</li> <li>Quarry Reserve estimation</li> </ul>	Pearl Mining (U) Ltd P.O. Box 2903, Kampala; project areas are in the Rift Valley, Mubende and Mukono)
3	<ul> <li>September, 2019 to July, 2020</li> <li>Geotechnical design of oil waste dump sites</li> <li>Well designs for ground water wells</li> <li>Ground Resistivity Measurements for oil waste dump sites</li> <li>Environmental Impact Assessment</li> <li>Soil Classification and Compaction studies</li> <li>Borehole data acquisition and interpretation</li> <li>Borehole drilling Supervision</li> </ul>	CNOOC Uganda Ltd  (Project was at King Fisher - Block 3 Area, Albertine Graben)
4	<ul> <li>August 2019 to June, 2021</li> <li>Geotechnical and Environmental Impact         Assessment for an Iron Ore Processing Plant</li> <li>Use of Gold Scanner (Vector Trek- long         Range Scanner) for mapping precious         metals</li> <li>Soil and Stream Sediment Geochemical         exploration</li> <li>Ground water Investigation and         Hydrogeological investigations</li> <li>Geophysical mapping</li> <li>GIS and Remote Sensing Mapping</li> </ul>	P.O Box 7459, Kampala (Projects in Gold exploration and Mine development in Ibanda, Mubende, Muko-Tororo, Grounwater projects across Uganda)
5	<ul> <li>March, 2018 to date</li> <li>Geological mapping and sampling for Limestone</li> <li>Lab and Core Analysis supervision</li> <li>Drill-hole supervision</li> </ul>	Bamburi Minerals Co. (U) Ltd, P.O. Box 5136, Kampala, Projects were in Kasese, Kotido and Tororo
6.	March 2018 to September 2019 Review of Energy and Mineral Development Sector Development plan for the key government institutions in Uganda	GIZ Funded Project-for  ADROIT CONSULT INTERNATIONAL