

# MORENDAT INSTITUTE OF OIL AND GAS

Morendat Institute of Oil & Gas (MIOG), established in 2014, is one of the premier TVET institutions and a Centre of Excellence offering training in oil & gas and related courses. Plans are at an advanced stage for it to be elevated to National Polytechnic status, which will see its expansion of course portfolio as a qualification awarding institution.

### How MIOG came into existence

Wholly owned by KPC, the institute was established in 2014 following the East Africa Heads of State Summit in Rwanda, which resolved that the region needed a capacity-building center in support of the Northern Corridor Integration Projects (NCIP).

As such, Kenya, which already had an operational petroleum pipeline from 1973, was best placed to host the school. Since then, MIOG has offered training to countries in the region including Uganda, Rwanda, Tanzania and Democratic Republic of Congo (DRC).

With campuses strategically located in Nairobi, Naivasha, and Eldoret, the institute is dedicated to upholding exceptional training standards in the region.

MIOG is registered by the Technical and Vocational Education and Training Authority (TVETA) as a Technical and Vocational College and offers diploma and certificate programs examined by the Technical and Vocational Education and Training Authority/ Curriculum Development Assessment and Certification Council (TVET/CDACC).

### International accreditations driving up employability of MIOG graduates

MIOG has partnered with international and local institutions for recognition and to increase the employability of graduates and mobility of labour.

Through a partnership with Sol Y Sol, a Spanish institution accredited by the American Welding Society (AWS), to assess and qualify pipeline welding students, MIOG has qualified trainees to different levels ranging from 3G to 6G, which is the highest. The certification is highly coveted among international oil and gas companies. "Graduates in specialized welding under AWS, can therefore confidently seek employment outside the country in areas such as heavy industries, shipbuilding and pipeline welding," says Prof. Kimani Chege, the Acting Director MIOG.

In recognition of the institute's leading role in welding training, it was nominated to offer refresher training to nominees of Kenya WorldSkills National competition and its welding equipment were used during the final competitions held at the Kenya School of TVET in August 2023.

MIOG nominee for the welding competition, 22-year-old Mathew Kigen Kibet, emerged the best welder securing a slot at the WorldSkills International Competition scheduled for Lyon, France, in September 2024.

Similarly, the institute is a training and assessment centre of the National Examination Board for Occupational Health and Safety (NEBOSH), a leading UK-based certification body.

NEBOSH International General Certificate (IGC) in Occupational Health and Safety certification is vital for anyone aspiring to work in health and safety space worldwide.

To join the league of institutions providing training and certification in specialized knowledge and skills for the offshore industry, an application has been submitted for registration by the prestigious Offshore Petroleum Industry Training Organization (OPITO), a global certification body.

The Institute is also licensed by the Directorate of Occupational Safety and Health Services (DOSHS) to offer courses that not only help to mitigate risks in workplaces but also ensure safety.

### Courses and training offered by the Institution

MIOG offers competency-based education and training (CBET) courses in whose emphasis is placed on skills acquisition and learners can progress at their pace.

While building on its mission to offer internationally accredited courses, research, and consultancy services, students at MIOG get a range of technical, health safety and environment as well as short corporate courses. The three and two-year diploma and certificate courses, which are modular, are attractive to school leavers and those willing to improve their skills in oil and gas. Trainees benefit from attachment opportunities offered by Kenya Pipeline Company Ltd.



Firefighting training



Uasin Gishu Governor Hon. Jonathan Bii commissioning the Live Fire Training Equipment. Present were KPC MD, Mr. Joe Sang (immediate left), invited guests and members of staff.

Some of the safety, health and environment courses offered include:

<ul style="list-style-type: none"> <li>▪ Firefighting</li> <li>▪ Fire Marshall</li> <li>▪ First Aid</li> <li>▪ Incident Command Systems</li> <li>▪ Incident Investigation and Reporting</li> <li>▪ LPG Installations and Handling Safety Course</li> <li>▪ Domestic Safety Awareness</li> <li>▪ Petroleum Products Handling Safety course</li> <li>▪ Management of Safety Work Permits</li> </ul>	<ul style="list-style-type: none"> <li>▪ Workplace Health &amp; Safety Environment Management</li> <li>▪ Disaster Preparedness</li> <li>▪ Occupational Health and Safety for (OSH) Committee Members</li> <li>▪ Construction Health &amp; Safety Management</li> <li>▪ Petroleum Tanker Drivers Safety and Defensive Driving</li> <li>▪ Executive Fire safety course</li> </ul>
---	---

Besides short courses, MIOG offers the following three-year diploma and two-year certificate programs.

- Diploma in Oil & Gas Economics
  - Diploma in Petroleum Management
  - Diploma in Welding & Fabrication
  - Certificate and Welding and Fabrication
  - Certificate in Firefighting I
  - Certificate in Fire Management
- Short corporate courses offered include: -
- Understanding Oil and Gas Contracts
  - Coaching and Mentorship
  - Legal Contracting in Oil and Gas Agreements
  - Fundamentals of Oil and Gas
  - Contract Management
  - Gain and Loss Management (product accounting)
  - Certified Fibre Optic Technician

### Consultancy

MIOG leverages on KPC's experience and staff expertise in pipeline operations spurning fifty years to offer consultancy services in the following areas: -

- Oil Depot Design, Operations and Management
- Pipeline Construction and Maintenance



Kenya WorldSkills National Competition

### PROFESSOR KIMANI CHEGE

Graduates in specialized pipeline welding under AWS, can confidently seek employment outside the country in areas such as heavy industries, shipbuilding and pipeline welding

- White Oil Quality Control Measures
- Storage Facilities Design, Construction, and operations
- Gain and Loss management for county water services and oil companies
- Technical consultancy in contractor supervision
- Destructive and non-destructive testing of welds

Handling of petroleum products business is delicate and requires strict safety measures to avert catastrophes. KPC has therefore invested heavily in safety equipment and staff training. MIOG therefore offers consultancy in the following safety areas: -

- Fire Safety Audit
- Annual Statutory Fire Risk Assessment
- Consultancy in Energy Strategy Development and Research
- Health, Safety, and Environment Audits
- Disaster Preparedness and Management

Among the beneficiaries of our consultancy services include, the Tanzanian-based Energy Regulators Association of East Africa (EREA) on the topic Pipeline Design, Maintenance and Regulation.

### Research and Innovation

The research department conducts problem-driven and highly technical studies for clients with opportunities for publishing in the Institute's Scientific Journal - The African Journal of Energy, Engineering & Training. This is the only journal domiciled in the Ministry Energy and Petroleum.

Research and innovation in oil and gas and green energy in the era of climate change targets the following areas: -

- Emerging Technologies
- Liquefied Petroleum Gas (LPG)
- Liquefied Natural Gas (LNG)
- Efficient Technology
- Environmental Protection
- Research on Sustainable Aviation Fuel
- Process Improvement E.g. Oil-Water Separator
- Proposal Writing for Grants.
- Provision of a platform for sharing research findings in the energy sector through the African Journal of Energy, Engineering, and Training
- Collaboration with other institutions to carry out research.

### Partnerships

MIOG's clients are drawn from private and public entities such as Government Ministries, State Corporations, County Governments, Learning Institutions, who uptake courses in health, safety and environment, firefighting, First Aid and corporate courses. Our regular clients include the Kenya Airports Authority (KAA), KenGen, National Construction Authority (NCA), Kenya School of Law, Ministry of Energy and Petroleum, Bolore Logistics, Kenya Pipeline staff among others.

The school has had Memorandum of Understanding (MoU) for training and consultancy with counties, among them Uasin-Gishu, Nakuru, Elgeyo-Marakwet, and Nandi.

For more details, please contact us on:

Tel: (+254) 0704 801 596 / 0713 693 379,

Email: [miog@kpc.co.ke](mailto:miog@kpc.co.ke); Website: [miog.kpc.co.ke](http://miog.kpc.co.ke)

LinkedIn: Morendat Institute of Oil and Gas,

Twitter: [morendatke](https://twitter.com/morendatke), Instagram: [morendatke](https://www.instagram.com/morendatke)

Facebook: Morendat Institute of Oil and Gas