



moving
mountains
together



BIA Training Centers

Maintenance and Operators
Training Programs



Equipment — Parts — Service

BIA Group

BIA has developed a comprehensive network of subsidiaries across Europe and Africa.

This includes offices, workshops for machine repair and maintenance, rebuild centers to recondition major components of mining equipment, parts warehouses, machine storage and training centers.

Our goal

- Train our teams to provide high-quality manpower to our customers for efficient fleet management to increase machines uptime, reduce maintenance cost and ensure safer operations.
- Support Customer's teams to handle the equipment, for a better productivity and higher performance.

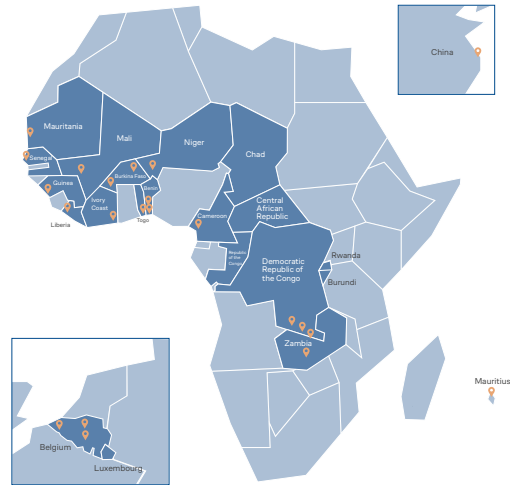
With a team of OEM certified trainers deployed across Africa, we ensure continuous improvement and operational excellence.

Vision

BIA wants to be a **sustainable independent group** with a family majority share by developing its positions in **Belgium, Luxembourg and in Africa**.

BIA consolidates its growth and profitability as a **Komatsu distributor**, recognized by its customers for its high-quality products and services, **focused on the Construction and Mining sectors**.

BIA will continue to strengthen its position by developing the **Transport and Energy sectors** as well as its portfolio of activities.



Mission

Driven by passion, we deliver the best equipment, services & technologies to increase customers' productivity, improve safety and reduce environmental impact.



Values

Excellence

Passion

Sustainability

Entrepreneurship

Our Training Centers

Leveraging more than 10 years of training experience in Dakar followed by Ouagadougou, we built a new Training Center in Kitwe, Zambia, in order to provide BIA technicians as well as customers with quality education.

BIA has invested in high quality training, professional trainer team and in modern equipment. Large range of training program has been developed to improve technicians and operators skill & competencies. Programs can be delivered at the BIA Training Center or on customer site.



Trainers Competencies

Using method by objectives and competencies approach, our trainers are specialized in adult training. With a technical engineer degree, our trainers are experienced in mining and construction application for technicians assessment. At customer request, our trainers can adapt the training content according to technicians profile.

Infrastructure

BIA Dakar Training center exceeds 400 m² building including training rooms, offices, operator simulators, genuine equipment for troubleshooting, electrical laboratory and field test area.

With more than 200 m², BIA Burkina training center includes training rooms, offices, a workshop with genuine equipment for hands on trainings.

BIA Zambia training facility in Kitwe includes 4 classrooms, a workshop with hydraulic and electrical training simulators, and engine cutaway.



Training Methods

High interaction between technicians and trainers. Professional training materials: manuals, Power-Point, cut away model. Hands-on training & Breakdown simulations. Practical Workshop sheets for hands-on exercises.

Fundamentals

Basic

Electricity

1. Electricity and magnetism fundamentals
2. Electric system
3. Battery
4. Starting & charge circuit
5. Use wiring and electrical diagrams

Hydraulic

1. Fundamentals
2. Terms & symbols
3. Lubricants
4. Components of the basic circuit
5. Maintenance

Engine

1. Diesel engine fundamentals
2. Engine components
3. Air intake and exhaust circuits
4. Circuits / lubrication - fuel - coolant
5. Common rail injection
6. Engine maintenance

Powertrain

1. Basic function of powertrain
2. Structure of powertrain
3. Automatic gearbox
4. Axles
5. Steering and brake system
6. Powertrain maintenance

Advanced

Electricity - Mechatronic

1. Sensors and actuators
2. Electronic control
3. Different electric circuits
4. Monitors
5. Troubleshooting

Hydraulic

1. Functioning of hydraulic circuit
2. Closed load sensing system
3. Open load sensing system
4. Hydrostatic system

Engine

1. Control and regulation valves
2. Injector setting
3. Purge of the low and high pressure circuit
4. Checking the static timing of the distribution
5. Calibration injection pump (focus)
6. Study of CRI and HPI engines

Powertrain

1. Kinematic chain
2. Torque converter
3. Power shift transmission
4. Hydrostatic transmission

In our training centers, we also offer on-demand courses tailored to your specific needs, as well as innovative training programs on Smartfleet^{DX} management, Topcon, and Komtrax.

Training Programs

Machine Maintenance

Preventive maintenance, Structure & Function, Troubleshooting



Excavator



Dozer



Dumper



Loader



Grader



Single Drum



Recycler



Refuse



Finisher



Tandem



Generator Sets



Engines for
mining sector



Battery Energy
Storage Systems



Mobile Crusher



Mobile Screens



Surface Drill Rigs



MAN Trucks



Foton Trucks

Training Programs

On Site Operator

BIA Training Center offers adapted operator training programs according to customers' machine fleet and trainees' level.

- Safety rules and road traffic laws
- Safety and risk operating machine
- Operator's duties and responsibility
- Site road traffic laws
- Machine's functions
- Machine's operation
- Daily inspection and identify failure before starting
- Cab's components and switches
- Control levers
- Good practices for tasks
- Prohibited operations
- Work in safety and efficiently with Komatsu machines



Training Programs

Simulator Operator

BIA Training Centers are equipped with simulators to assess, train new operators and update confirmed operators' skills.

Simulators are associated with supervision software that manages training sessions and records trainees' results.

Simulators can easily be transported to the customer's site: trainees stay in their workplaces.

Fast & Efficient

- Simulation improves the learning process for the trainees, without fear.
- Reduces stress and dangerous mistakes on real equipment.

Safety

- A safe learning environment for instructors and trainees.

Eco-Friendly

- Eco-friendly training without using fuel.

Intuitive Curriculum

- Developed by our professional trainers and based on increasing levels of difficulty throughout the exercises.

Cost Saving

- Accelerated and economical learning that significantly reduces equipment use and maintenance costs.



BIA Dakar Training Center

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Dakar, Sénégal
BP 15372 Fann Dakar

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complete training
module catalogue:
scan the QR code

