



# 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 customers. This ensures efficient fleet management, increased machine uptime, reduced maintenance costs, and safer operations
- Support customer teams in operating equipment for a better productivity and higher performance.

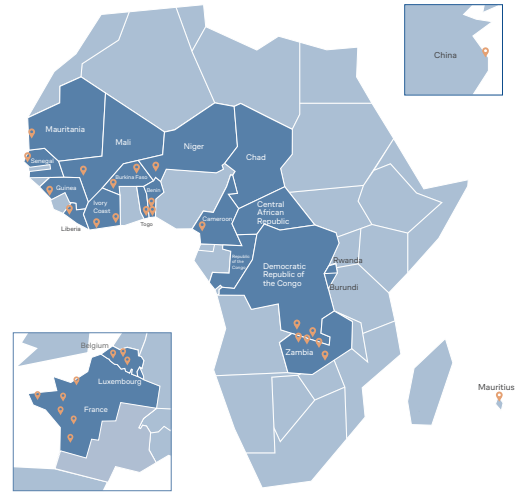
With a team of OEM certified trainers deployed across Africa, we ensure continuous improvement and operational excellence.

## Mission

BIA aims to become an independent and sustainable group, with majority family ownership, by strengthening its presence in Europe and Africa.

BIA continues to consolidate its growth and profitability as a Komatsu distributor, recognized by its customers for the quality of its products, integrated solutions and services, focused on the construction and mining industries.

BIA will continue to reinforce its position in the transport and energy sectors while exploring new markets and developing innovative solutions.



## Vision

Driven by passion, we provide the best equipment, services, and technologies to increase our 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, a professional team of trainers, and modern equipmen. A wide range of training programs has been developed to improve technicians and operators skills & competencies. Programs can be delivered either at BIA Training Centers or directly on customer sites.



## Trainers Competencies

Using an objective-based and competency-based 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 m<sup>2</sup> building including training rooms, offices, operator simulators, genuine equipment for troubleshooting, electrical laboratory and field test area.

With more than 200 m<sup>2</sup>, 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 & Break-down 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<sup>DX</sup> management, Topcon, and Komtrax.

## Training Programs

# Machine Maintenance

Preventive maintenance, Structure & Function, Troubleshooting

**KOMATSU**



Excavator

Dozer

Dumper

Loader

Grader

**BOMAG**  
FAYAT GROUP



Single Drum

Recycler

Refuse

Finisher

Tandem

**Cummins**



Generator Sets



Engines for  
mining sector



Battery Energy  
Storage Systems

**Metso**



Mobile Crusher



Mobile Screens

**FRD**  
FURUKAWA



Surface Drill Rigs

**MAN**



MAN Trucks

**FOTON**



Foton Trucks

## Training Programs

# On Site Operator

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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 inspections and identification of failures
- Cab's components and switches
- Control levers
- Good practices for tasks
- Prohibited operations
- Work safely 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 by allowing trainees to practice in a safe environment
- 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 Burkina  
Training Center**

BIA Burkina  
8,5 Km de l'Echangeur du Sud – RN5  
Ouagadougou  
Burkina Faso

**BIA Dakar  
Training Center**

BIA Dakar  
Route de Rufisque, Km 18,5  
Dakar  
Senegal

**BIA Zambia  
Training Center**

BIA Zambia Ltd  
Plot No. 3682, Natwange Road,  
Industrial Area, Kitwe  
Zambia

**BIA Côte d'Ivoire  
Training Center**

BIA CI SA  
PK29 Autoroute du Nord  
30 bp 423 Abidjan 30

**E-mail:**

[technical.training@biagroup.com](mailto:technical.training@biagroup.com)

[academy.biagroup.com](https://academy.biagroup.com)

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