

## Bangalore Metro Rail Corporation Training Institute

*Enhancing Engineering Efficiency...*

We have succeeded because we've stayed true to our core values,  
Putting Trainees First, Pursuing Excellence, Embracing Change, Acting  
with Integrity and Serving Our Society.



## BMRC Training Institute

The Training Institute was established on 8<sup>th</sup> September, 2011.

The Training Institute is a multi-disciplinary organization specializing in capacity building, consultancy and research support, particularly for the Metro Technology Instituted at a cost of 22 corers with a vision of making Bangalore centre as the International Training hub in Metro Technologies.

The training institute comprising of 22000 sft. in two floors having state of the art air-conditioned classroom facilities with the smart boards, projectors, Audio video system, Train simulator with 5D motion system, Computer Based Training (CBT) and seminar hall.

The wide range of training programs we offer, coupled with customized educational profiles and a modular structure, We offers a modular program that defines and develops training standards, which are executed worldwide in the Metro rail sector through a variety of different models.

Testimonial of VIPS



## OUR MISSION

“To be a Lead Centre of Excellence in Providing professional and progressive Training, Sharing Knowledge, Conducting Research, offering flexible, tailored training solutions designed to train, inspire and motivate individuals helping to reach and achieve organizational goals and aspirations”

## VISION – 2021

1. Place of learning and working and be inspired to bring out the best in them.
2. Mold individuals, industry and community through innovative and customized quality training for lifelong learning experiences.
3. To develop trained man power and implement state-of-the art Career commencement and professional development program in metro technology.
4. Encourage continuous learning, to upgrade and providing alternative life skill programs for ambitious employees and public in general.
5. To be the best training provider and self-sustaining Institution by 2021 by rendering services to national and international man power requirements in management of Metros.

Vision and  
Mission icons





## Training Experience



**Namma Metro - 1243 Trainees**



**Kochi Metro – 234 Trainees**



**MEGA Metro – 157 Trainees**



**Hyderabad Metro - 79 Trainees**



**Kolkata Metro – 67 Trainees**



**Chennai Metro - 32 Trainees**

Group Photos of other  
metro trainees

Description



## Training Design

The training is a transition from the academic world to the structured system of the urban rail transportation world. The training is designed and focused in a manner so as to achieve the objectives outlined by arranging a combination of academic inputs, field learning and co-curricular activities. During this transition we shall endeavour to provide appropriate training inputs which would be useful to trainees in understanding the basic concepts of Metro Rail functioning and the rules and regulations which are necessary for effective performance. Trainees shall also acquire the personality traits and attitudes necessary for effective functioning and also to learn to harness the productive potential of staff.

## Our Commitment

1. To provide exposure to the best teaching material and resource persons to facilitate professional, intellectual and emotional growth.
2. To be courteous, friendly and responsive to needs and aspirations.
3. To be impartial, principle-cantered and value-driven.
4. To provide an environment of inquiry and freedom, but with discipline, to foster professional growth.

## Our training Services - Operations

Category of Training	Duration in weeks
1. Train Operator Training	18
2. Station Controller Training	19
3. SC/TO Combined Training	24
4. Traffic Controller / Depot Controller Training	19
4. Crew Controller / Line Supervisor training	17
5. Station Manager Training	16
6. Customer Relation Personnel	6

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## Our training Services - Operations

1. The above training module includes both theoretical, Practical training on the job and train driving in test track .
2. 400 km Train Handling in main line may be given on demand of Client organisation with mutual consent.
3. The above training module does not include fire fighting and first Aid, may be organized on demand.
4. Contact us for detailed topics and the duration.

## Our training Services - Maintenance

Item No	Department	S No	Category of staff	Training duration in weeks
1	Civil	1	Civil Engineering Supervisor (JE & SE)	12
		2	Civil Engineering Maintener	10
2	P-Way	1	Pway Supervisor (JE & SE)	15
		2	P-Way Maintener	13
3	Rolling stock	1	Rolling stock Supervisor (JE & SE)	15
		2	Rolling stock Maintener	14
		3	Rolling stock Shunter	1
4	Traction Power	1	Traction Power Supervisor (JE & SE)	15
		2	Traction Power Maintener	13
5	Signalling System	1	Signalling System Supervisor (JE & SE)	14
		2	Signalling System Maintener	12
6	Telecom System	1	Telecom System Supervisor (JE & SE)	14
		2	Telecom System Maintener	12
7	E & M	1	E & M Supervisor (JE & SE)	12
		2	E & M Maintener	10
8	HR/Fin/Stores	1	Store Keeper & Supervisor	1
		2	HR & Finance	1





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## Our training Services - Soft Skill Training

To Increase the Productivity and Work Culture of Employees we are developing following Training Modules

1. Spoken English and Communication Skills.
2. Computer Skills
3. Work Ethics
4. Personality Development Class
5. Team Building and group activities
6. Yoga and Meditation class





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## Specialization Training By Vendor





## Training Fee

**Training fee is ₹ 2050 /day / trainee**

Which includes

1. Theory and practical training including train running in test track
2. Training materials and stationery
3. Travel in metro during training
4. Accommodation in furnished BMRCL Flats.
5. Breakfast lunch and dinner (Veg)
6. Coffee and tea during training hours.
7. Sports and cultural activities
8. Certification and group photograph.

## Class Rooms

- Air Conditioned lecture halls
- Equipped with state-of-the-art teaching facilities
- Audio-visual aids
- Interactive smart boards
- 8 Class Rooms of each can accommodate 25 Trainees



## Auditorium

- Fully air-conditioned with latest Audio visual aids
- HD projector and networking with class room.
- Method of teaching in class room is through Power Point presentations, Audio/Video visuals & Role Play by the trainees & trainer.



## Computer Lab

- Equipped with 30 numbers of computer.
- Latest software,
- Online test module,
- Feedback module.
- Digital Library



## Library





## Train Driving cab Simulator.

- It is a model rolling stock cab with simulation of rolling stock features and the view of the real track and landscape
- All the environmental conditions, the landscape view of the way is simulated in 3D modeling.
- simulators provide a perfect virtual working environment allowing exposing train operators to various different situations in surroundings that emulate their daily working environment or even a future workplace.
- Users experience realistic failures which are very rare to create on real train.
- Instructors can easily build any failure/incident scenario using the interactive toolbox and have full control over events during the exercise. With the toolbox, the instructor can influence the exercise at any time by changing elements such as clouds, weather conditions, availability of equipment, complexity of the failure, signal status etc.
- A detailed log of all actions allows evaluation and It is a state of the art Train Simulator with six degree of freedom motion system. It is capable of providing Trainee Train Operator with almost real experience of train driving with real time provision for the simulation of Train Malfunctions and unusual incidents.
- In the simulator train operators are trained on
  - Safe driving,
  - Degraded mode of driving
  - Signaling system failures,
  - Procedure of handling rolling stock faults ,
  - Handling emergency situations
  - Passenger rescue procedure during emergency.
- The simulator is also used by experienced drivers to practice skills and refine their techniques.



**Motion System Photo to be added**

## Computer Based Training Centre

Computer Based Training is an interactive instructor-less educational process. many pioneering educational theories had promoted the practice of individualized learning. It was a much different approach than classroom-based, teacher-led processes. Learners would interact with the learning material on their own, take brief tests in-between and receive automated feedback to self-check their progress.

- Delivering small chunks of information in a step-by-step manner.
- Prompting learners to respond to a lesson periodically, e.g., by taking brief tests.
- Providing learners with feedback on their responses or overall progress.
- Allowing learners to take courses at their own pace.
- Setting learning prerequisites for moving on to the next lesson.

BMRCL Training institute is equipped with 25 numbers of Computers with following CBT modules.

- 1 Pneumatic & Brake System
- 2 Power Supply System Modules
- 3 Door System Module
- 4 TMS Module
- 5 Train Overview
- 6 Safety Module
- 7 HVAC System Module
- 8 PA/PIS/CCTV System Module
- 9 Radio Communication Module
- 10 Signalling System Module
- 11 Operation Procedures Module
- 12 Station Management Module
- 13 Disaster Management

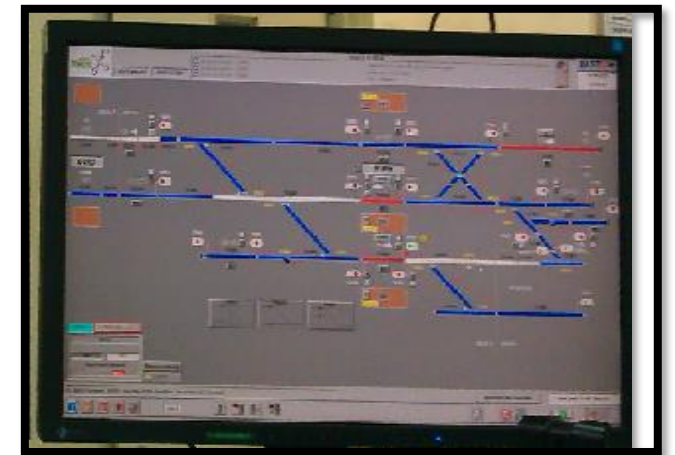
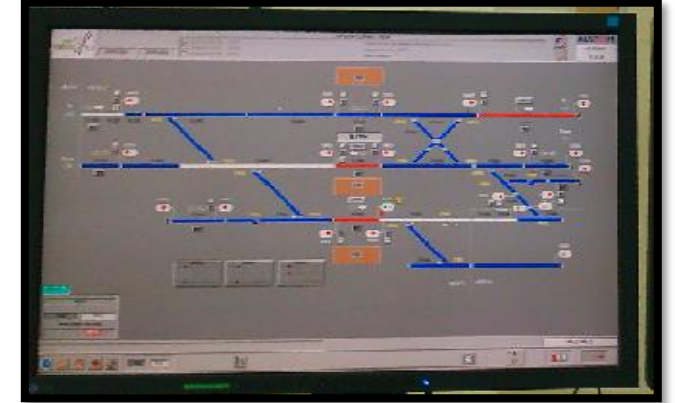


## Simulator for ATS - Automatic Train Supervision System

Signaling system simulator is the full functional computer based simulator for practicing the function and operation of automatic train supervision (ATS)

Trainees are trained on

- Setting of route,
- Required conditions for setting a route ,
- Points and cross overs,
- working principal of Interlocking ,
- Planning of possible routs in the system,
- Single line operation, Loop operation, different mode of operation of train supervision



## Automatic Fare Collection System (AFC) Lab

Training Institute has state of the art training facilities for hands on training of maintenance staff in the trouble shooting and maintenance of Automatic Fare Collection system.

AFC Lab simulate all the faults that appear in the AFC System are being used to train

The station staff who operates the system at station level, AFC and Telecom maintenance staff in quick and effective diagnosis of faults, and replacement of critical spare parts.

The AFC lab is equipped with

1. The actual Automatic entry/exit gates,
2. Ticket Office Machines (TOMs),
3. Contact less Smart Cards and Tokens.
4. AFC computers,
5. Card read and Write device
6. Remaining Value Checking Terminals
7. Automatic Ticket Vending Machines.



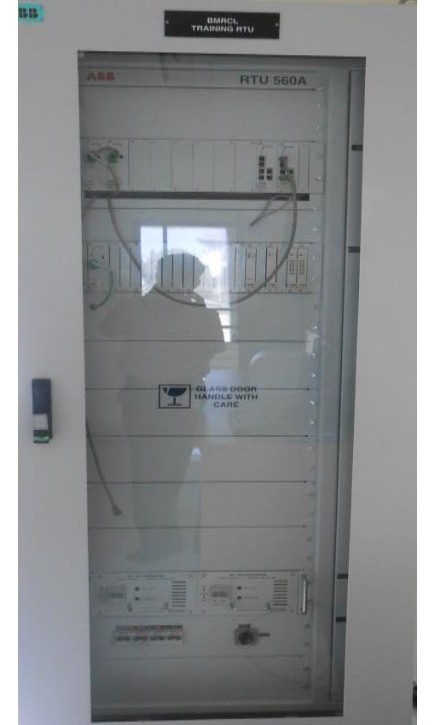


## SCADA Simulator

### Supervisory Control And Data Acquisition

System for remote monitoring and managing of Electrical System

Traction power, Auxiliary power supply system





## Model Track with Third Tail

Dedicated model track for training track and third rail related topics

1. Installation of Ballasted Track
2. Track fixtures
3. Measuring Track gauge
4. Installation of third rail
5. Power feeding points
6. Insulation of third rail
7. Power block procedure
8. Applying Short circuiting Device



## Rolling stock Maintenance Training Facility

1. Compressor testing Lab
2. Brake actuator testing Lab
3. Pneumatic Valve overhauling Lab
4. PA PIS system testing Lab
5. Electronics Repair center
6. Traction system Lab
7. Mobile & Pit Jacks
8. Emergency rescue vehicle (RRV)

## Telecom and AFC repair center



## Hostel facility

- BMRCL is equipped with Hostel facility
- Furnished flats with study table, cots and beds.
- Common area with news paper and magazines.
- walkable from Training center.
- Accommodation for 250 Trainees at a time
- Hygienic Indian vegetarian food
- Walkable from Training center.
- Equipped with sports equipment.



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## Training & Events

[1. Training Calendar](#)[2. On Going Training](#)[3. Special Training](#)[4. Seminars and Special presentations](#)[5. Soft Skill Training schedule](#)[6. Sports and cultural Activities](#)



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**Contact us,...and we will design a training solution tailored to your needs.**

## The Principal

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