

तकनीकी प्रशिक्षण केन्द्र
सवारी डिब्बा पुनर्निर्माण कारखाना
निशातपुरा, भोपाल- 462010 (म.प्र.)



वर्ष **2023-24**



TECHNICAL TRAINING CENTRE
COACH REHABILITATION WORKSHOP,
NISHATPURA, BHOPAL 462010 (M.P.)

Email ID: crwsttcbl@gmail.com

☎ **016-57438(Rly)**

PREFACE

This training centre was established as BTC in 1994 and recognized as TTC by Railway Board in the year 2005, with a purpose to enhance the potential of the newly recruited employees and to meet the immediate training need. Currently, Technical Training Centre is imparting training to CRWS employees and special courses to all zonal railways as per their requirements. Technical Training Centre is established within CRWS campus itself in its natural lush green and peaceful environment.

The centre has number of qualified trainers, workshop, teaching-aid equipments, different types of models, simulators for accomplishing its aim and objectives. The centre is doing the job of training with the co-operation and ideas / suggestions of its customers and will continue on the path of progress and prosperity of Indian Railway.

MISSION STATEMENT

"TO DEVELOP THE POSITIVE ATTITUDE, KNOWLEDGE, SKILL & WORKMENSHP OF RAILWAY EMPLOYEES WHICH IMPROVES THE QUALITY, GOODWILL OF ORGANIZATION AND ALSO MOTIVATE THEM FOR INCREASING THE PRODUCTIVITY TO IMPROVEMENTS IN THE PERFORMANCE OF THE INDIAN RAILWAYS."

Training Methodology

Modern teaching aids like simulators, LCD Projectors (audio-visual aid), Computers, working models, cut models, assemblies and components of coaches. Besides class room, practical training is also imparted at shop floor. Entry & learning behavior analyzed by pre assessments is adjudged at the time of induction and all efforts are made to fulfill the learning requirements of the trainees. Performance of each trainee is evaluated at the end of the programme by post assessments. Exercises, group discussions & safety seminars are also organized time to time.

Infrastructure and facility

Two nos. of simulators of LHB Coach braking system and braking fault trainer, Effective training Models, library, Sufficient Computers are available in Classrooms for the trainees. TTC has one LHB Model, where major and important components have been displayed. There are well furnished class rooms with multimedia LCD Projectors. TTC has an auditorium having seating capacity for 50 people. It is used for seminars to promote the advancement of technologies. The auditorium is equipped with CCTV cameras.

Number of Class : 04 rooms

No	Seating Cap.	Teaching Aid
Class Room 01	18	Multimedia LCD projector, White & Green board
Class Room 02	28	Multimedia LCD projector, White & Green board
Class Room 03	12	Green Glass board
Class Room 04	12	Green Glass board
Total	70	

CLASS ROOM

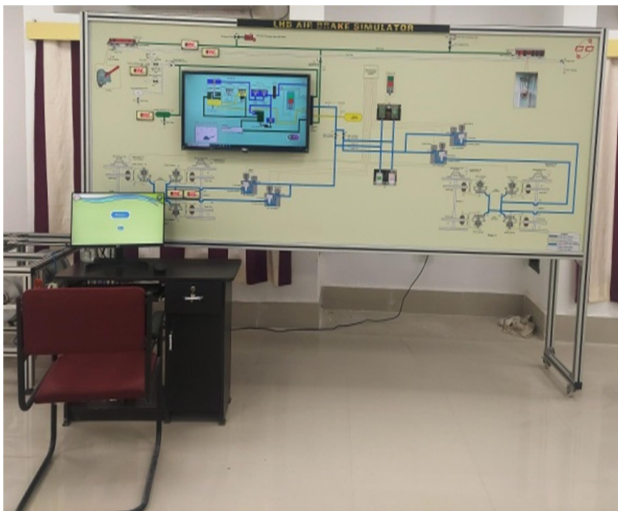


TRAINING AIDS

☐ LHB coach Braking simulator	: 01
☐ LHB coach Braking Fault trainer	: 01
☐ LCD projector	: 03
☐ LCD TV	: 01
☐ PCs	: 05
☐ Printers	: 04
☐ White & Green board	: 03
☐ Green Glass Board	: 02
☐ Photocopying	: 01
☐ Digital scanner	: 01
☐ Public address system	: 01
☐ Internet Broadband	: Available with Wi-Fi .
	: All PCs are connecting with internet.

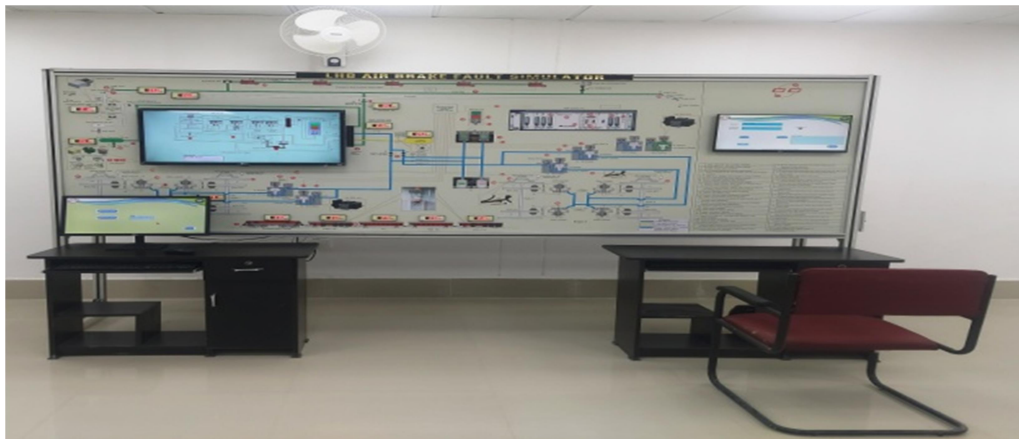
LHB coach Braking simulator

- ❖ LHB Coach Braking simulator and Fault trainer are useful to study the operation of LHB Air Brake System using KE Distributor Valve with computer simulation software and hardware.
- ❖ These simulators contain mimic with detailed schematic circuit of twin pipe LHB Air Brake System.
- ❖ Mimic Diagram contain LED screen for showing internal parts of distributor valve. The animation with pressure conditions are synchronized with gauges.
- ❖ The pressures in the brake pipe, feed pipe, and auxiliary reservoir displayed on the system mimic panel Pressure Gauges.
- ❖ The distributor valve animated and displayed on a monitor and actuated by operation of A9 valve.
- ❖ The simulator is also consist of the working model of bogie accompanied by components like Brake Disc, Brake Cylinder, Caliper unit, Phonic wheel, Speed sensor with wheel and axle.



LHB Coach Braking Fault trainer

- ♣ LHB Coach Braking Fault trainer is useful to study of troubleshooting of air brake system in LHB Coaches.
- ♣ The fault trainer simulator has an instructor panel which is used to create fault in the system. Then the trainee will follow a laid down fault-finding procedure and locate the fault.



E-Learning Multimedia Software

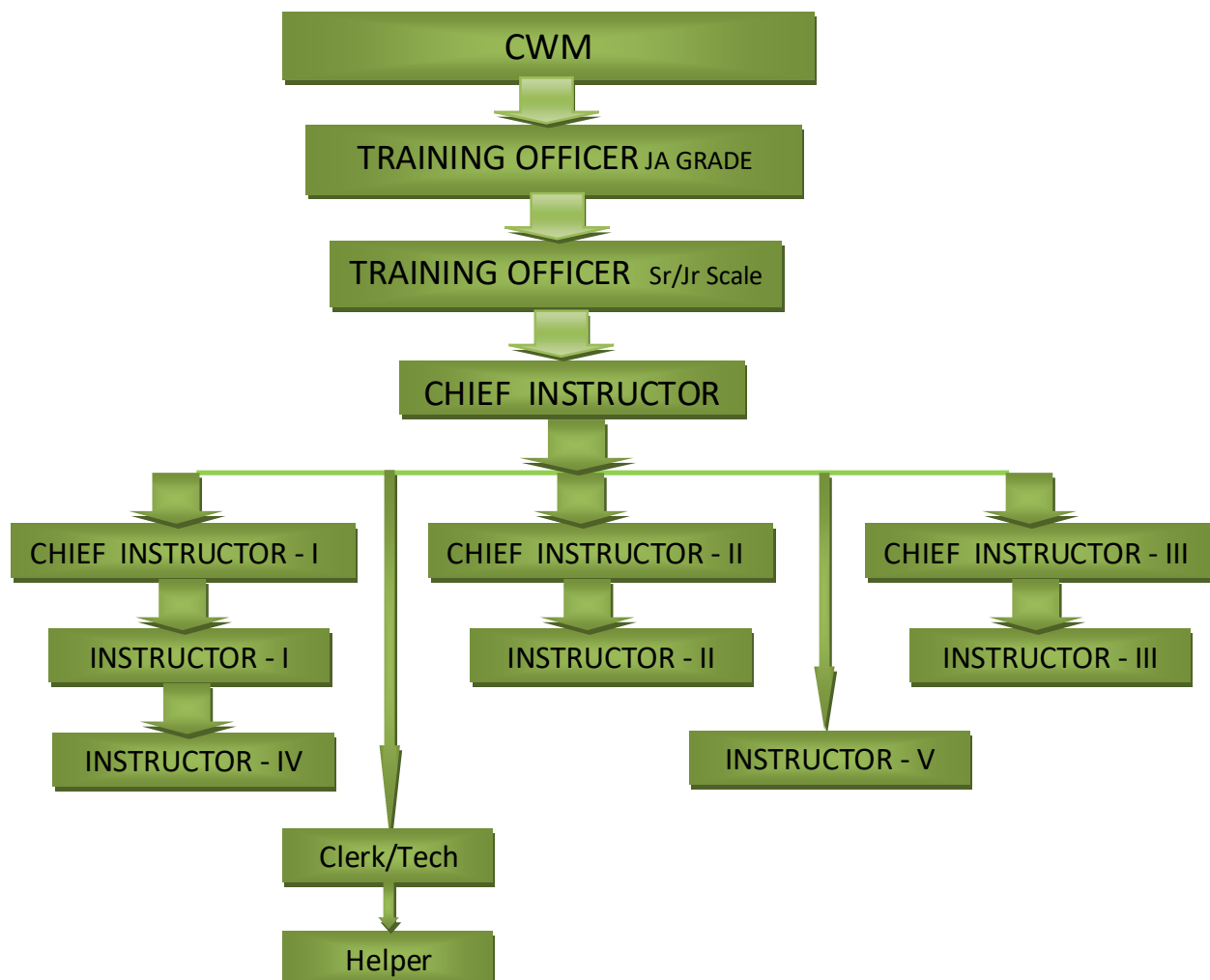
- ♣ E-Learning Multimedia Software is having different types of animations of working of components of Air Brake System.
- ♣ This system is very helpful for trainees to understand the complete function of Air Brake System easily.



STATUS OF TEACHING FACULTY :

Designation	Sanctioned strength	On roll	Vacancy
Chief Instructor	04	03	01
Instructor	05	NIL	05
Total	09	03	06

ORGANIZATION CHART –



FACULTY MEMBERS **AND THEIR CONTACTS**

NAME (S/Sh.)	DESIGN	PHONE			Remark
		RAILWAY	BSNL	MOBILE	
Manish Gautam	Ch. Instructor	016-7438	---	9752416160	
A.K.Soni	Ch. Instructor	016-7438	---	9752416153	
Shivendra yadav	Ch. Instructor	016-7438	---	8359962009	

Library

There is a well furnished library having more than 1200 books on various subjects like Technical, Management, Culture, Religion, Yoga, Literature and Applied trades. The soft copies of all technical pamphlets, manuals, Drawings are available for enhancement of knowledge of the trainees.

Seating capacity = 10 Nos.

- Total no. of books available : 1200
- Type of books : Mechanical ,Electrical,
Establishment & Hindi Literature.



- Codes and manuals : Soft Copies.
- Drawings & specifications : Soft Copies.
- Others : WallCharts(Safety, Fitter &Welder)

Refresher course for CRWS employee (Mechanical)

 पश्चिम मध्य रेल West Central Railway													DOCUMENT NO.: F/TTC/TC/02 Currently Valid from 18/01/2011
TECHNICAL TRAINING CENTER COACH REHABILITATION WORKSHOP, BHOPAL													
REFRESHER COURSE TRAINING CALENDAR FOR YEAR 2023 TO 2025 FOR CRWS STAFF													
Regular course	JAN	FEB	MARCH	APRIL	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	
1 Fitter	01 to 10	01 to 10		01 to 10	01 to 10		01 to 10 21 to 30	11 to 20		01 to 10	01 to 10		
2 Coach Repair			11 to 20		11 to 20		11 to 20		11 to 20	21 to 30	11 to 20		
3 Painter			01 to 10			01 to 10			01 to 10				01 to 10
4 Mill wright	11 to 20				21 to 30			01 to 10					11 to 20
5 Operator	11 to 20				21 to 30			01 to 10					11 to 20
6 Machinist	11 to 20				21 to 30			01 to 10					11 to 20
7 Sr. Tech	21 to 27	21 to 27		21 to 27		21 to 27		21 to 27	21 to 27		21 to 27		
8 INITIAL			21 to 27										21 to 27
9 Assitant workshop(M)		11 to 20		11 to 20		11 to 20				11 to 20			
10 Introductory course	On First Friday of Every Month from January to December												

Refresher course for CRWS employee (Electrical)

 पश्चिम मध्य रेल West Central Railway													DOCUMENT NO.: F/TTC/TC/02 Currently Valid from 18/01/2011
TECHNICAL TRAINING CENTER COACH REHABILITATION WORKSHOP, BHOPAL													
REFRESHER COURSE TRAINING CALENDAR FOR YEAR 2023 FOR CRWS STAFF													
Regular course	JAN	FEB	MARCH	APRIL	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	
1 ETL		11 to 20		11 to 20		11 to 20		11 to 20		11 to 20		11 to 20	
2 OSM			11 to 20		11 to 20		11 to 20		11 to 20				

LHB Disc Brake Course



पश्चिम मध्य रेल
West Central Railway

तकनीकी प्रशिक्षण केंद्र Technical Training Centre

विशेष पाठ्यक्रमों के लिए प्रशिक्षण कैलेंडर (2023)

सवारी डिब्बा पुनःनिर्माण कारखाना, भोपाल

TRAINING CALENDAR FOR SPECIAL COURSES (2023)

COACH REHABILITATION WORKSHOP, BHOPAL

An IMS, 5S & Green-Co Certified Workshop

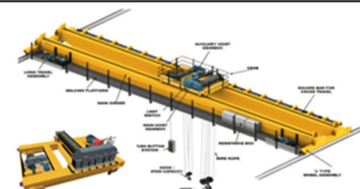
एलएचबी डिस्क ब्रेक सिस्टम		अवधि (Duration)	
LHB Disc Brake System	कब से (from)	कब तक (to)	
LDBS – 01/23	20/02/2023	23/02/2023	
LDBS – 02/23	22/05/2023	25/05/2023	
LDBS – 03/23	21/08/2023	24/08/2023	
LDBS – 04/23	28/11/2023	01/12/2023	

पात्रता वर्कशॉप और ओपन लाइन के पर्यवेक्षक और :आर्टिजन कर्मचारी।

Eligibility: Supervisor & Artisan staff of Work shop & Open line

Maintenance of EOT Crane

 तकनीकी प्रशिक्षण केंद्र Technical Training Centre विशेष पाठ्यक्रमों के लिए प्रशिक्षण कैलेंडर (2023) सवारी डिब्बा पुनःनिर्माण कारखाना, भोपाल TRAINING CALENDAR FOR SPECIAL COURSES (2023) COACH REHABILITATION WORKSHOP, BHOPAL An IMS, 5S & Green-Co Certified Workshop		
ईओटी क्रेन का अनुरक्षण Maintenance of EOT crane	अवधि (Duration)	
	कब से (from)	कब तक (to)
	MEOT Crane - 01/23	27/01/2023 30/01/2023
	MEOT Crane - 02/23	27/04/2023 29/04/2023
	MEOT Crane - 03/23	27/07/2023 29/07/2023
	MEOT Crane - 04/23	26/10/2023 28/10/2023
पात्रता वर्कशॉप और ओपन लाइन के पर्यवेक्षक और आर्टिसन कर्मचारी। Eligibility: Supervisor & Artisan staff of Work shop & Open line.		



Detail of Special Courses

➤ AIR BRAKE & DISC BRAKE SYSTEM

Aim of course : To develop knowledge & skill of the staff to meet the challenges in smooth operation & maintenance of air brake and disc brake

➤ MAINTENANCE OF EOT CRANE : (organized by SSE MW shop)

Aim of course: To develop knowledge & skill of the staff to meet the challenges in smooth operation & maintenance of EOT Crane.

Training Activities

Courses-	Duration
Refresher for staff	09 days
Special Courses Air Brake & Disc Brake System	04 days
Special Courses Maintenance of EOT Crane	03 days
Promotion from Helper to Technician	72 to 112 days
Special class for SC/ST candidate before promotion from Helper to Artisan, Artisan to JE	3 to 4 weeks
Training of Apprentice JEs/SSEs of CRWS	1 year
Training of Apprentice JEs/SSEs (LGS)	13 weeks
Induction training to Technician of CRWS (RRB)	26 weeks
Training of employees adopted in CRWS/BPL on compensation basis	06 Months (ITI) 03 Years (Non-ITI)
Training of Act Apprentice (ITI)	1 year
Vocational courses for college students in Summer	2 to 4 weeks

Models and Workshop

Workshop is equipped with the various working & non-working models and cut models of various components for demonstration. Trainees/ apprentices are taken to Pit lines, Coach Maintenance depot and workshop for practical training & study various maintenance/ repair practices.

List of equipments in workshop:

- ☐ Model of under-frame of ICF Coach
- ☐ Model of LHB Coach
- ☐ Working Model of Bio-toilet
- ☐ Working model of bogie mounted air brake system
- ☐ Cut section model of Air Brake Component
- ☐ Safety items & PPE's.

MODELS :-



Head stock assembly



Cut model of DRDO Bio tank



Bio Tank



Air brake working model