

पर्यवेक्षक प्रशिक्षण केन्द्र,  
उत्तर रेलवे, लखनऊ

**SUPERVISORS TRAINING CENTRE  
NORTHERN RAILWAY, LUCKNOW**



वार्षिक प्रशिक्षण कैलेंडर  
**ANNUAL TRAINING CALENDAR**  
**2024-2025**

## OUR TEAM MEMBERS

S. No.	Name	Designation	Contact No.
1.	Sh. Neeraj Srivastava	Director	-----
2.	Vacant	<b>AME Training</b>	-----
3.	Sh. Avadhesh Kumar	Sr. Lecturer (I/c)/Mech.	8400334043
4.	Sh. Prateek Srivastava	Sr. Lecturer /Mech.	8400334099
5.	Sh. Naveen Chandra Jaiswal	Sr. Lecturer /Mech.	8400334041
6.	Sh. Adarsh Soni	Sr. Lecturer /Mech.	7905374929
7.	Sh. Ratnesh Chandra Srivastava	Sr. Lecturer /Mech.	9794830755
8.	Sh. Pushpak Ranjan	Chief Instructor(I/c) /Mech.	9650409949
9.	Sh. Abhishek Shukla	Chief Instructor/Mech.	9450344468
10.	Sh. Dipesh Kumar	Chief Instructor /Mech.	9794830433
11.	Sh. Alok Dixit	Sr. Instructor (I/c)/WTC	8400334042
12.	Sh. Manvendra Singh	Chief Instructor	8400334041
13.	Sh. Vikas Srivastava	Chief Instructor	9794843325
14.	Sh. Rajan Malik	Instructor	7880969069
15.	Sh. Vikas Sharma	Instructor	9651163109
16.	Sh. Prabhu Dayal	PS	8287518494
17.	Sh. Ranjeet Singh	Ch. Office Superintendent	6393820715
18.	Sh. Shubham Mishra	Ch. Office Superintendent	7754866644
19.	Sh. Vikas Meena	CMA	7014275021

## List of Holidays-2024

S. No.	Name of Holiday	Date	Day
1.	Republic Day	26-01-2024	Friday
2.	Holi	25-03-2024	Monday
3.	Id-UI-Fiter	11-04-2024	Thursday
4.	Ram Navmi	17-04-2024	Wednesday
5.	Buddha Purnima	23-05-2024	Thursday
6.	Bakrid	17-06-2024	Monday
7.	Muharram	17-07-2024	Wednesday
8.	Independence Day	15-08-2024	Thursday
9.	Raksha Bandan	19-08-2024	Monday
10.	Janamashtami	26-08-2024	Monday
11.	Mahatma Gandhi's Birthday	02-10-2024	Wednesday
12.	Vijayadashami 'Dussehra'	12-10-2024	Saturday
13.	Deepawali	01-11-2024	Friday
14.	Chhat Puja	07-11-2024	Thursday
15.	Sh. Guru Nanak dev's Birthday	15-11-2024	Friday
16.	Christmas Day	25-12-2024	Wednesday

## **SUPERVISORS TRAINING CENTRE, LUCKNOW**

With green surroundings, the STC building is Platinum rated Green Building certified by Indian Green Building Council of CII. The campus has excellent Infrastructural Facilities, Modern Laboratories equipped with Audio-visual Training content, Trainers, Simulators, Cut-sections, Models, Self-learning Stations and more. The campus is WiFi enabled with Air-conditioned modern classrooms, CCTV monitoring, Interactive panels, Digital Visualizers etc.

### **HOSTEL & MESS**

The Apprentice Engineers Hostel has more than 100 rooms with a total bed capacity of 170 beds. The dining hall has a seating capacity for serving 120 meals at a time. The mess is run by the trainees on self-financing and self-managed basis. The hostel has a common recreation hall with cable TV, indoor gymnasium, open badminton and volleyball courts.

### **STC LIBRARY (e-Granthalaya)**

The STC library is well stocked with than 2240 books on various subjects such as Engineering, Management, Information Technology, Welding Technology and Yoga. Various Hand books, Codes, Maintenance manuals, Accident manuals etc. are also available for reference. Newspapers in Hindi and English are also available. The library uses the e-Granthalaya cloud software developed by NIC for library management.

### **EXTRA CURRICULAR ACTIVITIES**

The faculty at STC guides the trainees for taking part in Extra-Curricular activities like Nukad-Nataks, Debate competitions, Essay writing, Poster making, Swachta Shramdaan, Mission LiFE etc. This is considered essential for overall personality development of the trainees.

### **GREEN INITIATIVES**

STC has a tertiary-level Sewage Treatment Plant, Rain water harvesting plant, Artworks developed from Scrap, Solar Energy panels, comfortable classrooms etc. These are some of the Green initiatives taken by STC with an environmentally sustainable growth objective. These initiatives also serve the demonstration purpose for motivating & grooming the trainees towards adopting green initiatives in their own workplaces.

### **AIR CONDITION LAB**

Air Condition Lab is helpful for understanding the complete refrigeration cycle and technologies used. This lab has Refrigeration Cycle trainer, Gas charging Trainer, basic Air-Conditioning trainer, Small Components (*Compressors etc*), Models Learning Station and RMPU Trainer with ICF & LHB Control Panels.

### **C&W LAB**

C&W Lab is well equipped with learning stations related to C&W components and their working. The Lab has Air Brake System simulator to demonstrate working of DV and various Air Brake System Components. Various components and cut models of ICF, LHB and Wagon are available in this Lab. Audio-Visual content as short video clips is also available and help in better grasp of the subject matter.

### **COMPUTER LAB**

For the training on MS WORD, EXCEL, POWER POINT and INTERNET for Northern Railway Supervisors and Technicians, a well-equipped COMPUTER LAB with Latest Desktop Computers, Wi-Fi connection with Internet facility and printing is also available.

### **DIESEL ENGINE LAB**

The Diesel Engine Lab has been upgraded for training on various systems of ALCO and EMD locomotives. There are trainers and learning stations for Fuel oil system, Lube oil system, Water Cooling system, Braking system, Electrical system, DEMU etc. A wide range of Audio-Visual content is available for better grasp of subject matter by the trainees. This lab also houses the 3D Printing and Modelling workstation.

### **ELECTRICAL LAB**

The Electrical Lab is equipped with Wiring Diagram Trainer of 2<sup>nd</sup> AC ICF and LHB coaches. There are electrical Meters and gauges, IV couplers ICF & LHB, WRA and other components for demonstration.

### **WELDING LAB (Centre for Excellence)**

This is a Centre for Excellence Lab at STC and is equipped with Virtual Reality based Welding Simulator from Fronius. The lab has advanced learning aids like Interactive Learning Board, Training Stations, AC & DC, IGBT based welding plants, MIG/CO<sub>2</sub> welding plant, Plasma, LPG, Oxy-Acetylene cutting plants, Fume Extractor system.

### **WSP LAB (Centre for Excellence)**

This is a Centre for Excellence Lab at STC and is furnished with a working hardware simulator for Wheel Slide Protection system used in LHB Coaches of Indian Railways. The simulator has a full FIAT bogie with working connections of bogie brake system and its interaction with WSP system. Audio-visual content is also available for better grasp of subject material.

### **AUTOMATION LAB**

The Automation Lab is the latest addition of high-end labs in STC and has training facilities with live working components, sensors, PLC etc for training in Mechatronics and Automation. The training range covers basic circuits and components to Embedded systems and Robotics.

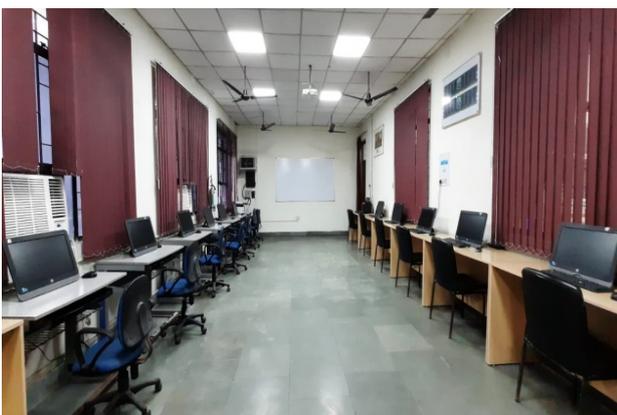


**Smart Class Rooms**



**STC Library (e-Granthalaya)**

**Air Conditioning Lab**



**Computer Lab**

**Automation Lab**



**Diesel Engine Lab**



**C&W Model Park**



**Electrical Lab**



**Welding Lab**



**WSP Lab**

**TRAINING CALENDAR OF SUPERVISORS TRAINING CENTRE, NORTHERN RAILWAY, LUCKNOW**

COURSES FOR YEAR: 2024-2025 (April-2024 to March-2025)														
S No.			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
<b>A. REGULAR COURSES (Induction &amp; Promotional Course)</b>														
1	Induction Course for ASE & AJE	(52 weeks)	*01 <sup>st</sup> to 05 <sup>th</sup>	-----	*03 <sup>rd</sup> to 07 <sup>th</sup>	-----	*05 <sup>th</sup> to 09 <sup>th</sup>	-----	*07 <sup>th</sup> to 11 <sup>th</sup>	-----	*02 <sup>nd</sup> to 06 <sup>th</sup>	-----	*03 <sup>rd</sup> to 07 <sup>th</sup>	-----
2	Promotional Course for IJE	(52 weeks)	-----	*13 <sup>th</sup> to 17 <sup>th</sup>	-----	-----	*20 <sup>th</sup> to 23 <sup>th</sup>	-----	-----	*18 <sup>th</sup> to 22 <sup>th</sup>	-----	-----	*10 <sup>th</sup> to 14 <sup>th</sup>	-----
3	Promotional Course for RJE	(13 weeks)	*22 <sup>th</sup> to 26 <sup>th</sup>	-----	*18 <sup>th</sup> to 22 <sup>th</sup>	-----	*20 <sup>th</sup> to 24 <sup>th</sup>	-----	*21 <sup>st</sup> to 25 <sup>th</sup>	-----	*23 <sup>rd</sup> to 27 <sup>th</sup>	-----	*24 <sup>th</sup> to 28 <sup>th</sup>	-----
<b>*These are Course Registration dates. The Classes will begin after Course Registration. Note: Registrations will NOT be done in mid-session or on other dates.</b>														
<b>B. REFRESHER COURSE</b>														
1	Refresher course for SSEs & JEs (Mechanical)		01 <sup>st</sup> to 20 <sup>th</sup>	06 <sup>th</sup> to 25 <sup>th</sup>	03 <sup>rd</sup> to 22 <sup>th</sup>	01 <sup>st</sup> to 20 <sup>th</sup>	05 <sup>th</sup> to 24 <sup>th</sup>	02 <sup>nd</sup> to 21 <sup>st</sup>	07 <sup>th</sup> to 26 <sup>th</sup>	04 <sup>th</sup> to 23 <sup>rd</sup>	02 <sup>nd</sup> to 21 <sup>st</sup>	06 <sup>th</sup> to 25 <sup>th</sup>	03 <sup>rd</sup> to 22 <sup>nd</sup>	03 <sup>rd</sup> to 22 <sup>nd</sup>
<b>C. SPECIAL COURSES</b>														
1	NDT Course for Mech. and C&M Supervisors		22 <sup>nd</sup> to 24 <sup>th</sup>	-----	-----	22 <sup>nd</sup> to 24 <sup>th</sup>	-----	-----	07 <sup>th</sup> to 09 <sup>th</sup>	-----	-----	27 <sup>th</sup> to 29 <sup>th</sup>	-----	-----
2	Introduction to Electronics, Automation & Control System		01 <sup>st</sup> to 04 <sup>th</sup>	-----	03 <sup>rd</sup> to 06 <sup>th</sup>	-----	05 <sup>th</sup> to 08 <sup>th</sup>	-----	07 <sup>th</sup> to 10 <sup>th</sup>	-----	02 <sup>nd</sup> to 05 <sup>th</sup>	-----	03 <sup>rd</sup> to 06 <sup>th</sup>	-----
3	Introduction to Train Sets		-----	06 <sup>th</sup> to 09 <sup>th</sup>	-----	08 <sup>th</sup> to 11 <sup>th</sup>	-----	02 <sup>nd</sup> to 05 <sup>th</sup>	-----	11 <sup>th</sup> to 14 <sup>th</sup>	-----	06 <sup>th</sup> to 09 <sup>th</sup>	-----	03 <sup>rd</sup> to 06 <sup>th</sup>
4	Introduction to 3D Modeling & 3D Printing		-----	-----	24 <sup>th</sup> to 26 <sup>th</sup>	-----	-----	-----	-----	-----	02 <sup>nd</sup> to 04 <sup>th</sup>	-----	-----	-----
5	Excellence in Welding for Supervisors		-----	13 <sup>th</sup> to 15 <sup>th</sup>	-----	-----	12 <sup>th</sup> to 14 <sup>th</sup>	-----	-----	11 <sup>th</sup> to 13 <sup>th</sup>	-----	-----	10 <sup>th</sup> to 12 <sup>th</sup>	-----
6	Short Course on Management of Linen, OBHS, CTS, Pest Control, Stores, & Safety at workplace		-----	13 <sup>th</sup> to 15 <sup>th</sup>	-----	08 <sup>th</sup> to 10 <sup>th</sup>	-----	-----	14 <sup>th</sup> to 16 <sup>th</sup>	-----	-----	-----	10 <sup>th</sup> to 12 <sup>th</sup>	-----
7	LHB Coach Maintenance		-----	-----	24 <sup>th</sup> to 28 <sup>th</sup>	-----	-----	09 <sup>th</sup> to 13 <sup>th</sup>	-----	-----	16 <sup>th</sup> to 20 <sup>th</sup>	-----	-----	03 <sup>rd</sup> to 07 <sup>th</sup>
8	Short Course on IMWB, WILD, HAHW & OMRS		22 <sup>nd</sup> to 24 <sup>th</sup>	-----	25 <sup>th</sup> to 27 <sup>th</sup>	-----	-----	25 <sup>th</sup> to 27 <sup>th</sup>	-----	27 <sup>th</sup> to 29 <sup>th</sup>	-----	28 <sup>th</sup> to 30 <sup>th</sup>	-----	26 <sup>th</sup> to 28 <sup>th</sup>
9	Railway Couplers –Design, Maintenance and Defects		02 <sup>nd</sup> to 03 <sup>rd</sup>	-----	-----	25 <sup>th</sup> to 26 <sup>th</sup>	-----	-----	07 <sup>th</sup> to 08 <sup>th</sup>	-----	-----	14 <sup>th</sup> to 15 <sup>th</sup>	-----	-----
10	Design, Maintenance, Trouble-shooting: Air Brake, Air-Dryers, PEASD, WSP & FIBA in Locos/Coaches/DEMU's/Wagons		-----	27 <sup>th</sup> to 30 <sup>th</sup>	-----	22 <sup>nd</sup> to 25 <sup>th</sup>	-----	23 <sup>rd</sup> to 26 <sup>th</sup>	-----	25 <sup>th</sup> to 28 <sup>th</sup>	-----	28 <sup>th</sup> to 31 <sup>st</sup>	-----	25 <sup>th</sup> to 28 <sup>th</sup>
11	Bio-toilets – Design, Maintenance and, Trouble-shooting for mech. Supervisors		-----	-----	03 <sup>rd</sup> to 04 <sup>th</sup>	-----	-----	26 <sup>th</sup> to 27 <sup>th</sup>	-----	-----	03 <sup>rd</sup> to 04 <sup>th</sup>	-----	-----	24 <sup>th</sup> to 25 <sup>th</sup>
12	Disaster Management & Accident Investigation		24 <sup>th</sup> to 26 <sup>th</sup>	-----	-----	-----	28 <sup>th</sup> to 30 <sup>th</sup>	-----	-----	-----	10 <sup>th</sup> to 12 <sup>th</sup>	-----	04 <sup>th</sup> to 06 <sup>th</sup>	-----
13	Train Examination Pattern (for coaching & wagons)–Practices, Infrastructure & New Developments		-----	28 <sup>th</sup> to 29 <sup>th</sup>	-----	-----	27 <sup>th</sup> to 28 <sup>th</sup>	-----	28 <sup>th</sup> to 29 <sup>th</sup>	-----	-----	-----	27 <sup>th</sup> to 28 <sup>th</sup>	-----
<b>D. WTC COURSES</b>														
1	Refresher course for Welders		01 <sup>st</sup> to 20 <sup>th</sup>	06 <sup>th</sup> to 25 <sup>th</sup>	03 <sup>rd</sup> to 22 <sup>nd</sup>	01 <sup>st</sup> to 20 <sup>th</sup>	05 <sup>th</sup> to 24 <sup>th</sup>	02 <sup>nd</sup> to 21 <sup>st</sup>	07 <sup>th</sup> to 26 <sup>th</sup>	11 <sup>th</sup> to 30 <sup>th</sup>	02 <sup>nd</sup> to 21 <sup>st</sup>	06 <sup>th</sup> to 25 <sup>th</sup>	03 <sup>rd</sup> to 22 <sup>nd</sup>	03 <sup>rd</sup> to 22 <sup>nd</sup>
2	Refresher Course for Artisans (common to all)		15 <sup>th</sup> to 27 <sup>th</sup>	13 <sup>th</sup> to 25 <sup>th</sup>	10 <sup>th</sup> to 22 <sup>nd</sup>	01 <sup>st</sup> to 13 <sup>th</sup>	05 <sup>th</sup> to 17 <sup>th</sup>	02 <sup>nd</sup> to 14 <sup>th</sup>	14 <sup>th</sup> to 26 <sup>th</sup>	18 <sup>th</sup> to 23 <sup>rd</sup>	09 <sup>th</sup> to 21 <sup>st</sup>	13 <sup>th</sup> to 25 <sup>th</sup>	10 <sup>th</sup> to 22 <sup>nd</sup>	10 <sup>th</sup> to 22 <sup>nd</sup>
3	RKVY Training for Welders**		08 <sup>th</sup> to 27 <sup>th</sup>	13 <sup>th</sup> to 01 <sup>st</sup>	10 <sup>th</sup> to 29 <sup>th</sup>	08 <sup>th</sup> to 27 <sup>th</sup>	12 <sup>th</sup> to 31 <sup>st</sup>	09 <sup>th</sup> to 28 <sup>th</sup>	07 <sup>th</sup> to 26 <sup>th</sup>	11 <sup>th</sup> to 30 <sup>th</sup>	09 <sup>th</sup> to 28 <sup>th</sup>	13 <sup>th</sup> to 01 <sup>st</sup>	10 <sup>th</sup> to 01 <sup>st</sup>	10 <sup>th</sup> to 29 <sup>th</sup>
4	RKVY Training for Electricians**		08 <sup>th</sup> to 27 <sup>th</sup>	13 <sup>th</sup> to 01 <sup>st</sup>	10 <sup>th</sup> to 29 <sup>th</sup>	08 <sup>th</sup> to 27 <sup>th</sup>	12 <sup>th</sup> to 31 <sup>st</sup>	09 <sup>th</sup> to 28 <sup>th</sup>	07 <sup>th</sup> to 26 <sup>th</sup>	11 <sup>th</sup> to 30 <sup>th</sup>	09 <sup>th</sup> to 28 <sup>th</sup>	13 <sup>th</sup> to 01 <sup>st</sup>	10 <sup>th</sup> to 01 <sup>st</sup>	10 <sup>th</sup> to 29 <sup>th</sup>
<b>**These courses are for Non-Railway Trainees.</b>														



**Heritage Gallery**



**Hostel Mess (Dining Hall)**



**Roof Top Solar System**



**Modern Gymnasium**

## COURSE CONTENT HIGHLIGHT

### **Refresher Course for SSEs & JEs (Mechanical):**

(Coordinator – Sh. Abhishek Shukla)

- Policy circulars/ guidelines issued by CAMTECH, RDSO, Railway Board etc.
- Design developments, Maintenance, Troubleshooting for Rolling Stock and Workshops.
- Motivation, Stress Management, Personality Development.
- Safety, Labour laws, Factory Act, Pollution Control laws etc.
- Field visits to Production Units / Major depots.
- Material Management, Tenders and Contracts, Technical English, Office Communications etc.
- Establishment Rules, D&AR, Rajbhasha.
- C&M Lab procedures, Elementary Electronics, Welding processes, Accident Investigations etc.

### **NDT Course for Mech. and C&M Supervisors:**

(Coordinator – Sh. Vikas Meena)

- Introduction to Destructive & Non-Destructive Testing.
- Dye penetration test of Rolling stock items.
- Zyglon testing, Magnetic particle testing of various components of Rolling Stock.
- Ultrasonic testing of Axle and other items of Rolling Stock.
- Radiographic testing (X-ray, Gamma-ray, etc.)

### **Introduction to Electronics, Automation & Control System:**

(Coordinator – Sh. Manvendra Singh)

- Introduction to Mechatronics and its applications – system automation, remote monitoring and analysis.
- Introduction to PLC, Embedded Systems, Microprocessor and integrated circuits.
- Boolean algebra, Logic gates, Gate design.
- Hands on Microprocessor programming.
- Practical sessions for circuit building- Electrical and Hydraulic trainers.

### **Introduction to Train Sets:**

(Coordinator – Sh. Dipesh Kumar)

- Introduction to Train-Set – Design, Features, Major Sub-systems, Maintenance Instructions.
- Train-18 bogie and comparison with LHB FIAT bogie. Major components and Maintenance.
- AC-DC-AC power transmission system, Major sub-assemblies / components and Maintenance.
- Overview of PIPAS, Door Control, Vacuum Bio-toilets, Braking System, Water supply, HVAC, Furnishings, Train Control & Monitoring System etc.
- EP, ED, Blended braking, major components, maintenance, defects and troubleshooting practices.
- Important Infrastructure, Materials, M&P required.

### **Introduction to 3D Modeling & 3D Printing:**

(Coordinator – Sh. Prateek Srivastava)

- Introduction to 3D Modelling – Modelling tools, co-ordinate system and modelling Operations.
- Engineering Drawing & CAD Drawings.
- Hands on training on 3D modelling software – Unigraphics NX.
- Hands on training on 3D printing software.
- Rapid prototyping using 3D modelling and Printing.

### **Excellence in Welding for Supervisors:** (Coordinator – Sh. Alok Dixit)

- Introduction to welding process- types and uses new technological developments.
- Welding terminology and Welding process used for Rolling Stock manufacture and maintenance.
- Heat effect-welding process, machine and electrode selection.
- MMAW, CO2, TIG/MIG welding, Oxy-acetylene, LPG and Air Plasma cutting.
- Types of welding machines, current and voltage selection and their effects, grounding and other precautions, welding defects-identification and prevention.
- Welding Environment, welding skill for quality weld, rating.

### **Short Course on Management of Linen, OBHS, CTS, Pest Control, Stores, & Safety at workplace:** (Coordinator– Sh. Naveen Chandra Jaiswal)

- Details and working of mechanized laundries.
- Guidelines for inspection of laundry.
- Linen holding and train services.
- Guidelines for condemnation of Linen.
- Details and guidelines for CTS and OBHS services.
- Soft skills for OBHS staff, tools and cleaning agents etc.
- Pest & Rodent control chemicals/agents.
- Feedback formats used in OBHS.
- Analysis to reduce passengers complains
- Duties of C&W Supervisor regarding CTS, OBHS, Linen, Pest Control, Material Stores and Workplace Safety.
- PPEs and Safety conditions for worker safety and related rules.
- Online tendering through IREPS, Procurement of Stock and Non-Stock items through iMMS.
- Framing of tender conditions, material specifications, other conditions, warranty claims etc.

### **LHB Coach Maintenance:**

(Coordinator – Sh. Pushpak Ranjan)

- Introduction to LHB, Comparison with ICF coaches.
- Design Features of FIAT bogie, LHB Shell, Interiors, Materials, Force transmission, Safety Features etc.
- Major sub-assemblies and Components, Modifications.
- Maintenance Schedules and Locations (Depot/Workshop), Activities, Infrastructure, T&P, M&P required,
- Material requirement must change items, common defects, identification of defects, Troubleshooting etc.
- Smart Coach Features and Utility.

### **Short Course on IMWB, WILD, HAHW & OMRS:**

(Coordinator– Sh. Abhishek Shukla)

- Concept and Working Principles of IMWB, WILD, OMRS, HAHW etc.
- Utility, Benefits, Status on Indian Railways.
- Alerts / Reports generated, JPO/Protocols for action.
- Infrastructure requirement, site selection and installation.
- Maintenance, Calibration, Troubleshooting.

### **Railway Couplers –Design, Maintenance and Defects:**

(Coordinator – Sh. Dipesh Kumar)

- Types of Couplers, locking / unlocking procedures.
- Components and constructions details of IR rolling stock couplers
- Coupler Defects, Maintenance Guidelines, Use of Gauges.
- Instructions and Precautions to avoid accidental uncoupling.
- Causes and prevention of train parting.

## **Design, Maintenance, Trouble-shooting of Air Brake, Air-Dryers, PEASD, WSP & FIBA in Locos/Coaches/DEMUs/Wagons:**

(Coordinator – Sh. Pushpak Ranjan)

- Various types of Air-brake system.
- Working Principle of the Distributor Valve, Brake Cylinder, ACP, FIBA & WSP System with maintenance practice.
- Maintenance and Trouble shootings, investigation of airbrake system/component failure cases, case studies and decoding of various defect Codes for Fault Diagnosis of WSP system.
- Demonstration of various component of WSP system

## **Bio-toilets – Design, Maintenance, Trouble-shooting:**

(Coordinator – Sh. Dipesh Kumar)

- Evolution of Bio-Toilet in IR- need and Role of CAMTECH & DRDO.
- Designs, Working Principle and Maintenance Procedures.
- Laboratory test, Common Defects, Precautions and Trouble shooting.
- Bio-Vacuum Toilets.

## **Disaster Management and Accident Investigation:**

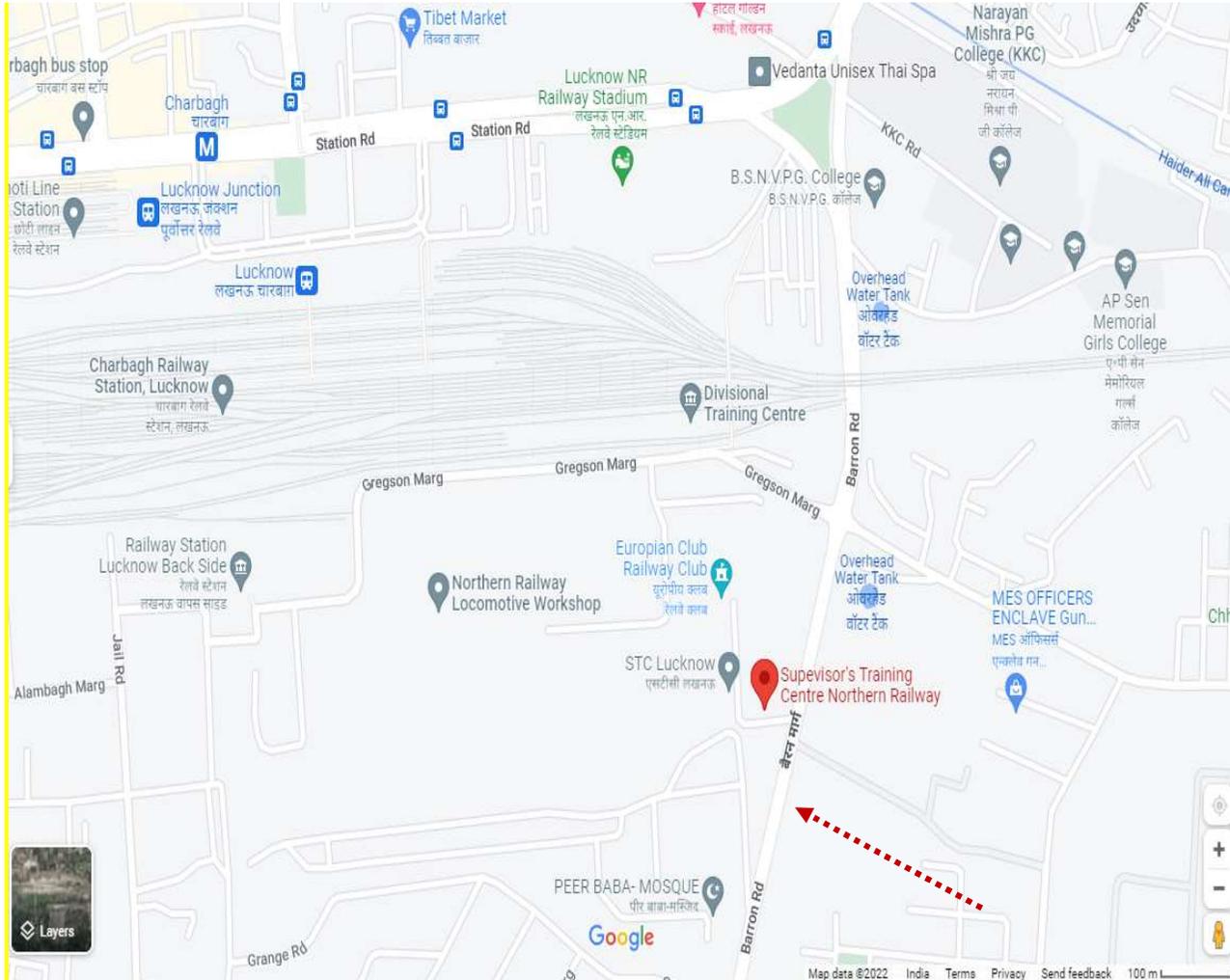
(Coordinator – Sh. Dipesh Kumar)

- Introduction to Railway accidents, types, causes, statistics and Disaster Management
- ART, SPART, ARME, 140T cranes – Design, Equipment, Maintenance, Operating Procedure, Inspection etc. and Field visit.
- Detailed study of accident causes, how to Identify and Establish, Case studies, Accident manual, Track measurements and maintenance practices, recording of dimensions etc.
- Role of Supervisor and Railway Personnel at Accident site
- Management of Accident site, Measurements at Accident site and observations, preservation of clues, records, Preliminary Investigation and reporting at accident sites.
- Report preparation and further actions

## **Train Examination Pattern (for coaching & wagons) - Practices, Infrastructure and New Developments:**

(Coordinator – Sh. Abhishek Shukla)

- Train Examination patterns for Coaching and Freight examination with policy circulars revised RPC-IV.
- Various freight train examinations -End to End, Premium, CC. Validity & Revalidation of BPC.
- Infrastructure and Material requirement in Pitlines, Sicklines, Yards and Depots.
- Smart Yard, Automated Inspection Systems, Coach Washing Plant, Lighting, Camtech Pitline etc.
- Maintenance practices and Record Keeping during maintenance.



Contact:

**SUPERVISORS TRAINING CENTRE**

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