



भारतीय रेल यांत्रिक एवं वद्युत अ भयंत्रण संस्थान  
**Indian Railways Institute of Mechanical & Electrical Engineering**  
**Government of India – Ministry of Railways**  
(AN ISO 9001:2015, ISO 14001:2015, ISO 50001:2011 CERTIFIED INSTITUTE)



**TRAINING CALENDAR**

**2021-2022**

## ABOUT IRIMEE

Indian Railways Institute of Mechanical and Electrical Engineering (IRIMEE) is the oldest CTI of Indian Railways. It was originally set up in 1888 as the Technical School of the Railway Locomotive Workshop, Jamalpur by the East India Railway (EIR).

The first train of EIR, filled to capacity, was flagged off on August 15, 1854, from Howrah to Hooghly, a distance of 24 miles. The railway grew very rapidly to Jamalpur in 1861. Jamalpur was near Munger, a manufacturing town considered in those days to be “Birmingham of the East”. Initially Jamalpur was only a steam loco changing station and light repairs to the locomotives were done in the running shed. The original locomotive workshop of EIR was located at Howrah. It was shifted to Jamalpur on 8<sup>th</sup> February 1862.

The workshop started with around three-and-a-half thousand men and expanded quickly to more than twenty thousand men. A night school was initially started for training apprentices. However, in 1888, EIR established a Technical School at the workshop, where the Trade Apprentices Scheme was started for imparting specialized on the job training in mechanical engineering and steam locomotives.

An Apprentice Mechanics scheme was begun at this school in 1905, for Anglo-Indians. On the completion of this five-year apprenticeship, the apprentice mechanics were appointed as Assistant Foremen or Assistant Superintendents on the EIR. The scheme was extended in 1911 to cover other Indians.

The first decade of the twentieth century was a period of intense political activity in India when the demands for indianization of Civil Services proliferated. The Royal Commission on the Superior Civil Services in India under the Chairmanship of Lord Lee submitted its report in 1924 recommending the setting up of a Public Service Commission. The first Public Service Commission was set up on October 1, 1926 under the Chairmanship of Sir Ross Barker. This was as the Federal Public Service Commission (1935) and after Independence, accorded Constitutional status as the autonomous entity known as Union Public Service Commission in 1950.

Selections were held for the flagship Special Class Railway Apprenticeship Scheme by the Public Service Commission in 1926 and the first batch of these apprentices joined the Technical School on February 14, 1927. From 1<sup>st</sup> April 1974, the administrative control of Technical School was transferred from Eastern Railway to the Railway Board. The Technical School was then renamed as Indian Railways Institute of Mechanical and Electrical Engineering

(IRIMEE). From 1991, training of IRSME Probationers has been centralized at IRIMEE Jamalpur.

## **TRAINING FACILITIES**

IRIMEE has air-conditioned classrooms equipped with modern teaching aids such as overhead LCD projectors, computers connected to the internet through a LAN. There are model rooms for Carriage & Wagon, Air-brake systems, 140 T Crane, ALCO Locomotives and High horsepower Locomotives. It has an excellent Mechatronics Lab, CNC trainer Machines and a Bio-diesel lab.

IRIMEE has a well-stocked library with about 17,000 books on technical, scientific and management subjects. It also subscribes to over 30 Indian and foreign periodicals and journals. It has a collection on educational CD ROMs and video films.

## **GUIDELINES FOR CONTROLLING OFFICERS**

1. Use the internet-based system the link to which has been already sent to the Chief Mechanical engineers of the Zonal Railways and Pus, to nominate the trainee officer/supervisor.
2. The trainees should be informed well in advance about their nominations to enable them to plan their journey to Jamalpur. The availability of emergency quota at Jamalpur is very limited and last-minute confirmations might be difficult.
3. Please check the official website of IRIMEE three days before the beginning of the course for any information regarding cancellation/rescheduling of courses.
4. Accommodation for supervisors and officers up to senior scale will be made on twin-sharing basis. Officers in SAG/SG/JAG will be given single rooms, based on availability.
5. It will be difficult to accommodate families at the hostels in IRIMEE. This must be made very clear to the officer/supervisor.
6. Trainee officers should not bring personal staff. No accommodation will be provided to such staff.
7. Trainee officers should be told to bring their laptops as most of the course material is made available in soft copy only. Trainees coming for courses can be returned if they do not bring a laptop.
8. IRIMEE has multiple sports facilities. Trainee officers/supervisors should bring their personal sports equipment for using these facilities.
9. The climate of Jamalpur can be very hot in summers and very cold in winters and wet in the summer monsoons. This should be kept in mind while packing.

10. Trainees will have to make payment for mess charges in cash.
11. Please send vehicle requirements for pick up one day advance to CI(DSL) at 7070897971.

### **ADVANCE INTIMATION OF NOMINATION**

Please send the nominations to IRIMEE using the link to [irimee.in](http://irimee.in) for nomination at least two weeks in advance. This is required for planning of accommodation and teaching facilities. Online nomination facilities for courses are now available which can be sent through URL link, already provided to CMEs.

### **EXAMINATIONS**

All trainee officers and supervisors will have to write examinations during or at the end of a course. No leniency will be allowed in this respect.

### **LEAVE**

Leave will normally not be granted during a course.



Toppers of all courses will be felicitated on IRIMEE Annual Day (14<sup>th</sup> February) subsequent to the completion of the Course.

Details of courses in the year 2021-22 are provided below.

### **OFFLINE COURSES**

<b>Probationary training</b>	
Phase II Training for IRSME Probationers IES 2019 + EOL 2018	19.04.2021 to 21.06.2021
Review and examination	22.03.2022 to 28.03.2022
<b>Common Appreciation Course for probationers</b>	
Common Appreciation Course for Other Probationers	28.06.2021 to 09.08.2021
<b>Special Courses for Officers and Senior Supervisors</b>	
Course on Distributed power rolling stock	16.08.2021 to 20.08.2021
Course on Freight and Wagon stock	23.08.2021 to 27.08.2021
Course on LHB Coaches	04.10.2021 to 08.10.2021
Course on Welding Technology & Corrosion	18.10.2021 to 22.10.2021
Course on Disaster management	25.10.2021 to 29.10.2021
Course on HHP locomotive	25.10.2021 to 29.10.2021
Course on LHB Coaches	20.12.2021 to 24.12.2021
Course on Disaster management	14.02.2022 to 18.02.2022
Course on Train lighting and Air conditioning	14.02.2022 to 18.02.2022

<b>Group B Induction Course</b>	
21-BIND-3	31.08.2021 to 08.10.2021
21-BIND-4	06.12.2021 to 14.01.2022
21-BIND-5	21.02.2022 to 31.03.2022
<b>Junior Engineer Training</b>	
21-JET-11	15.11.2021 to 10.12.2021
21-JET-12	20.12.2021 to 14.01.2021
21-JET-13	17.01.2022 to 11.02.2022
21-JET-14	28.02.2022 to 25.03.2022
<b>Bangladesh Railway Training</b>	
Carriage & Wagon Module-I	03.05.2021 to 14.05.2021
Locomotive module-I	17.05.2021 to 28.05.2021
Appreciation module - I	31.05.2021 to 04.06.2021
Carriage & Wagon Module-II	07.06.2021 to 18.06.2021
Appreciation module - II	16.08.2021 to 20.08.2021
Locomotive module-II	23.08.2021 to 04.09.2021
Carriage & Wagon Module-III	06.09.2021 to 17.09.2021
Locomotive module-III	20.09.2021 to 01.10.2021
Appreciation module - III	04.10.2021 to 08.10.2021
Carriage & Wagon Module-IV	22.11.2021 to 03.12.2021
Locomotive module-IV	06.12.2021 to 17.12.2021
Appreciation module - IV	27.12.2021 to 31.12.2021
Carriage & Wagon Module-V	10.01.2021 to 21.01.2021
Locomotive module-V	24.01.2021 to 04.02.2021
Appreciation module - V	21.02.2021 to 25.02.2021

### **ONLINE COURSES**

<b>Special Courses for Officers and Senior Supervisors</b>	
Group B Induction course 21-BIND-1	12.04.2021 to 21.05.2021
Course on LHB Coaches	05.04.2021 to 09.04.2021
Course on Disaster management	12.04.2021 to 16.04.2021
Course on Freight and Wagon stock	26.04.2021 to 30.04.2021
Course on Welding Technology & Corrosion	07.06.2021 to 11.06.2021
Course on Train lighting and Air conditioning	21.06.2021 to 25.06.2021
Group B Induction course 21-BIND-2	28.06.2021 to 06.08.2021
Course on Environment and housekeeping management	05.07.2021 to 09.07.2021
Course on tenders and contracts	09.08.2021 to 13.08.2021
Course on E-Office	09.08.2021 to 13.08.2021
Course on Workshop Technology	18.10.2021 to 22.10.2021
Course on Environment and housekeeping management	25.10.2021 to 29.10.2021
Course on Train lighting and Air conditioning	15.11.2021 to 19.11.2021
Course on Freight and Wagon stock	22.11.2021 to 26.11.2021
Course on tenders and contracts	29.11.2021 to 03.12.2021

Course on Distributed power rolling stock	29.11.2021 to 03.12.2021
Course on E-Office	13.12.2021 to 16.12.2021
Course on Disaster management	20.12.2021 to 24.12.2021
Course on HHP locomotive	27.12.2021 to 31.12.2021
Course on Train lighting and Air conditioning	03.01.2022 to 07.01.2022
Course on Workshop Technology	17.01.2022 to 21.01.2022
Course on Freight and Wagon stock	24.01.2022 to 28.01.2022
Course on tenders and contracts	24.01.2022 to 28.01.2022
Course on Environment and housekeeping management	31.01.2022 to 04.02.2022
Course on Welding Technology & Corrosion	31.01.2022 to 04.02.2022
Course on E-Office	07.02.2022 to 11.02.2022
Course on Distributed power rolling stock	07.02.2022 to 11.02.2022
Course on LHB Coaches	14.02.2022 to 18.02.2022
Course on Workshop Technology	21.02.2022 to 25.02.2022
Course on tenders and contracts	28.02.2022 to 04.03.2022
Course on Environment and housekeeping management	28.02.2022 to 04.03.2022
Course on Distributed power rolling stock	07.03.2022 to 11.03.2022
Course on Freight and Wagon stock	14.03.2022 to 18.03.2022
Course on HHP locomotive	28.03.2022 to 01.04.2022
<b>Mandatory course for Direct recruit CMA supervisors</b>	
21-SCMA-1	12.04.2021 to 04.06.2021
21-SCMA-2	14.06.2021 to 06.08.2021
21-SCMA-3	16.08.2021 to 08.10.2021
<b>Course for senior supervisors of M&amp;C cadre</b>	
21-SCMS-1	15.11.2021 to 10.12.2021
21-SCMS-2	03.01.2022 to 28.01.2022
21-SCMS-3	07.03.2022 to 01.04.2022
<b>Junior Engineer Training</b>	
20-JET-11	31.03.2021 to 09.03.2021
20-JET-12	31.03.2021 to 16.03.2021
21-JET-1	12.04.2021 to 07.05.2021
21-JET-2	10.05.2021 to 04.06.2021
21-JET-3	24.05.2021 to 18.06.2021
21-JET-4	07.06.2021 to 02.07.2021
21-JET-5	05.07.2021 to 30.07.2021
21-JET-6	12.07.2021 to 06.08.2021
21-JET-7	09.08.2021 to 03.09.2021
21-JET-8	16.08.2021 to 10.09.2021
21-JET-9	06.09.2021 to 01.10.2021
21-JET-10	13.09.2021 to 08.10.2021
<b>Special course for IRSEE Probationers</b>	
White manual for IRSEE Probationers	18.10.2021 to 22.10.2021

## Brief Details on Courses at IRIMEE

### **Appreciation Course for Probationers from other CTIs**

Probationers of other Railway services are trained for one week in various aspects of working of Mechanical Department. They are made aware of the synergy between their departments and the Mechanical Department in the Railways.

**Eligibility:** Probationers of all Railway services except IRSME

### **Group B Induction Programme for Mechanical Engineers**

Group B officers come from the supervisory cadre where their exposure is limited. As officers they need to have cross- functional knowledge across various fields of working in Mechanical Department. This course prepares the officers from any background to take on responsibilities in Manufacturing, Open line and Diesels. They also do a project and go for a field visit.

**Eligibility:** Group B officers of Mechanical Department.

### **Mandatory Course for Direct Recruit mechanical Junior Engineers**

Directly Recruited Junior Engineers are trained during this course on the wider aspects of working of the mechanical Department in Indian Railways.

**Eligibility:** Directly recruited supervisors under initial training of Mechanical Department.

### **Mandatory course for Direct Recruit CMA Supervisors**

Directly Recruited Chemical & Metallurgical Assistant (CMAs) are trained during this course on the wider aspects of working of their Department in Indian Railways. They are trained on rubbers and polymers, metallurgy, testing, biodiesels etc. Course includes mandatory field visits. Now the duration of this course has been reduced to 10 weeks instead of 13 weeks.

**Eligibility:** Directly Recruited CMAs during their initial training

### **Course for Senior Supervisors (CMS) of M&C cadre**

This is a mandatory course for Chemical and Metallurgical Supervisors (CMS). They are trained on the various aspects of working like rubbers and polymers, metallurgy, testing, biodiesels etc.

**Eligibility:** Chemical and Metallurgical Supervisors

#### **Tender and Contracts of Mech. Deptt.**

Mechanical Department is engaged in a getting a large amount of work done through tenders and contracts. Successful tendering and proper contract management requires a special set of skills. This course imparts working knowledge of these skills. The course is participative in nature where trainees are encouraged to share their field experience, apprehensions and problems, some of which are solved in the class.

**Eligibility:** Officers up to JAG of Mechanical Department including supervisors.

#### **Course on e-office**

This course gives training on various activities of office on Indian Railways e.g. drafting of letters, notes, D.O. letter, movement of files on e-office, work on excel, CAT/Court cases, RTI, Pink book & law book, procedure of filing of papers & notes etc. A special 'Hands on' training is provided on e-office working.

**Eligibility:** JS & SS officers of Mechanical Department

#### **Train lighting & Air Conditioning**

This course gives exposure to trainees on electrical aspects of coaches like Air Conditioning, Self-Generating & EOG and power cars. Power & Circuit Diagrams are also covered.

**Eligibility:** Officers up to JAG of Mechanical Department including supervisors.

### **Course on LHB**

Railway Board has already taken decision to stop production of ICF and to manufacture only LHB coaches. So, LHB coaches will be proliferated to every coaching depot. This course is designed to familiarize participants with the salient features pertaining to designed and maintenance of LHB coaches.

**Eligibility:** Officers up to JAG of Mechanical Department including supervisors.

### **Course on HHP Loco**

Over the last decade major changes have come in the field of Diesel. Traction technology in Indian Railways. This course builds upon basic knowledge of diesel locomotives, HHP maintenance, to update their knowledge with topics specific to HHP Locos.

**Eligibility:** Officers up to JAG of Mechanical Department including senior supervisors.

### **Welding Technology and Corrosion**

Rolling stock of Indian Railways are being manufactured using welding. This course imparts knowledge to the trainees on welding methods including the more modern processes like stainless steel welding and MIG welding. It also trains the trainees in identifying the different kinds of corrosion, their reasons and preventive strategies.

### **Environment & Housekeeping Management**

This course focuses on solid waste management and pollution control. It discusses the applicability of various laws related to environment & pollution control to Indian Railways.

**Eligibility:** Officers up to JAG of Mechanical department including supervisors.

### **DPRS**

This course gives exposes trainees to Power & Control Circuit of EMUs, basic layout of train 18 and aims to give a general idea of all types of Distributed Power Rolling Stock.

**Eligibility:** Officers up to JAG of Mechanical Department including supervisors.

### **Course on Freight and Wagon stock**

This course exposes trainees to aspect of wagon design, manufacturing and maintenance. The course is conducted by IRIMEE in association with Wagon directorate of RDSO

**Eligibility:** Officers up to JAG of Mechanical Department including supervisors.

### **Course on Workshop Technology**

This course deals with Workshop technology, process flow, incentive scheme, factory act, workshop accounts etc.

**Eligibility:** Officers up to JAG of Mechanical Department including supervisors.

### **Course on disaster management**

Course deals topics such as accident manual, disaster and accident classification, ART/ARME/SPART, 140 T crane, duties of staff at accident site etc.

**Eligibility:** Officers up to JAG of Mechanical Department including supervisors.