PBC No. 78/2026

Azadi Ka Amrit Mahotsav

दक्षिण रेलवे Southern Railway
प्रधान मुख्य कार्मिक अधिकारी कार्यालय
Office of the Principal Chief Personnel Officer
प्रधान कार्यालय, कार्मिक विभाग, चेन्नै-600003
Headquarters, Personnel Department, Chennai-600003

सं/No: P(S)608/IV/Mech/CCBT/LDCE दिनांकित /Dated: 26.05.2026

All PHODs/ DRMs/ CWMs/ CWE/ CAO/ CPM/ PDA/ Dy.CPOs/ Sr.DPOs/ Secy to GM, Chairman/RRB/MAS,TVC, Addl.Registrar/RCT/MAS, Secretary/RRT/MAS, Principal MDZTI/TPJ ZTTC/GOC , DPOs/SPOs/WPOs/APOs of HQ/Divisions/Workshops/Units.

विषय/Sub: **Syllabus for the post of Junior Engineer/Mechanical/Workshop in L-6 against 25% LDCE Intermediate Apprentice Quota/ Mechanical Department – reg.**

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The syllabus for the post of Junior Engineer/Mechanical/Workshop in Level-6 against 25 % promotional Quota and 25% LDCE Intermediate Apprentice Quota in Level-6 approved by PCME is enclosed for information, guidance and necessary action.

This has the approval of Competent Authority.

Encl:2 Pages

आर राजेश कु मार /(R.RAJESH KUMAR)
वरिष्ठ कार्मिक अधिकारी/वा,यां एवं बि
Senior Personnel Officer/T,M&E
कृते प्रधान मुख्य कार्मिक अधिकारी
for Principal Chief Personnel Officer

तfिलिपि/Copy to: The General Secretary/SRMU
The General Secretary/DREU
The General Secretary/AISCTREA
The General Secretary/AIOBCREA
The General Secretary/NFIR
IT Section/HQ/PB – to upload in the SR website

JE/Workshop syllabus

- Railway Organization & Management
- Role of Mechanical Dept.
- **Rolling Stock Theory- Carriage** (ICF, LHB, Amrit bharat & Vande Bharat)
  - Introduction
  - **ICF Coaches–** Coach shell , bogie, Draw and buffing gear, Brake rigging, Maintenance schedules, Items which are must change items during POH, List of RDSO technical pamphlets, NMG coaches, NTXR and latest modifications, Concept of FSDS/ FDSS
  - **LHB coaches -** Feature of LHB coaches, coach shell, FIAT bogie, Axle mounted disc brake system , maintenance schedules, NTXR and latest modifications, Concept of FSDS/ FDSS , MLR of LHB
  - **Vande bharat coaches- -** Feature of VB coaches (MC, TC, NDTC, DTC), coach shell, Bogie, braking system , maintenance schedules, Coupler, NTXR and latest modifications
  - **DEMU coaches-** Special features of DEMU coaches, Air spring, Semi permanent coupler, Electro pneumatic brake system
  - **Double Decker coaches**
  - **Amrit bharat coaches**
  - **Air brake -** Components of Air brake equipment , Working principle of Air brake for various coaches, Single car test, Distributor valve, FIBA, WSP
  - **Wheel –** Wheel defects and condemning limits , WWP, RDSO instructions on wheel defects
  - **Bio toilet-** Maintenance of Bio toilet , PFS/EPPFS
- **Rolling Stock Theory – Wagon**
  - Classification of various wagons
  - CASNUB bogie, LCCF 20(C) bogie, LWLH bogie
  - BLC wagons
  - SAB and Load Empty box
  - Tank wagons

- BMBS for freight stock
- List of must change items during POH
- Maintenance schedules for various wagons

- **Rolling Stock Theory - Diesel Loco, DEMU, SPART, Train Sets: MEMU/ EMU**
- **Industrial Safety, First aid & Firefighting**
- **Stores, Tender & Contract**
- **Welding and its defects & Non-Destructive Testing**
- **Corrosion and its prevention in Rolling stock**
- **Accident & Disaster management**
  - Objective in the order of priority
  - Siren codes
  - Responsibilities of Railway staff in the event of Accident
  - The responsibilities of various departments during accident
- WISE module and its usage
- Basic knowledge of HoER, D&AR, Leave & Pass rules.
- Conversant with IRCA Part-III & IV and maintenance manuals.
- Work study and time study
- QMS, EMS , 5S certification
- Incentive scheme in Workshops
- RSP, M &P and Works Programme for Workshops
- WMS budget for Workshop.
- System of labour accountal GA Cards for time keeping documents, tally sheets, Job/Route Cards, inspection & rate fixing
- Roller Bearing & Cartridge Bearings