



PBC No. 08 / 2025

दक्षिणरेलवे Southern Railway
प्रधानमुख्यकार्मिकअधिकारीकार्यालय
Office of the Principal Chief Personnel Officer
प्रधानकार्यालय, कार्मिकविभाग, चेन्नै-600003
Headquarters, Personnel Department, Chennai-600003

सं/No:P(S)563/VII/Tech.III/Power/TL-LDCE [Comp.No.520041] दिनांक/Dated:09.01.2025

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

विषय/Sub: **Syllabus for the post of Tech.III/ Electrical/ Power in Level-2 and Tech.III/ Electrical/ TL in Level-2 against 25% LDCE Intermediate Apprentice quota of Electrical Department.**

- संदर्भ/Ref: 1) Railway Board's letter No.E(NG)/I/2022/PM1/36 dated 08.02.2024 (RBE No.11/2024) under PBC No.21/2024 dated 13.02.2024.
- 2) PCPO/MAS' letter No.P(Co-ord) CCBT/2024 dated 20.11.2024 (PBC No.253/2024).

The syllabus for the post of Tech.III/ Electrical/ Power in Level-2 and Tech.III/ Electrical/ TL in Level-2 against 25% LDCE Intermediate Apprentice quota approved by PCEE, are enclosed for information, guidance and necessary action.

This has the approval of the competent authority.

संलग्नक/Encl.: 3 pages.


(R. Rajesh Kumar)

Asst.Personnel Officer/C,M&E
for Principal Chief Personnel Officer

प्रतिलिपि/Copy to: The General Secretary/SRMU
The General Secretary/DREU
The General Secretary/AISCTREA
The General Secretary/AIOBCREA
The General Secretary/NFIR

IT Section/PB/HQ - to upload on the SR website.

Annexure 'A'**SYLLABUS FOR THE SELECTION TO THE POST OF TECH. GR. III / POWER
AGAINST 25% LDCE QUOTA IN ELECTRICAL/ GS DEPARTMENT**

(Enclosure to the letter No. જે/પી/J/P502259 Dt.19.11.2024)

1. How to use the measuring instrument calipers, micrometers, voltmeter, ammeter, energy measures, tri-vector meters, instances relay timers.
2. Draw simple wiring diagram by connecting lights and fans wattage allowed in each short circuits, light and power.
3. Knowledge about power supply - LT medium and high-tension supply how to test the single phase 3 phase supply of LT medium and how to test the high-tension supply.
4. Maximum error allowed for energy meters and frequency meters.
5. Knowledge about protective devices such as fuses, MCBs circuit breakers isolators, overload relays.
6. Maintenance of electric fans, light lifting, switch gears transformers and pumps.
7. Knowledge about connection of DOL star delta starter Auto transformer starter. Rotor Rheostat.
8. Knowledge about UG cable, LT distribution, cable jointing, jumper connection etc.
9. Knowledge about lighting of PF, station building, yard and type of fitting used in the above locations.
10. Knowledge about method of testing insulation resistance in electrical installations such as wiring, motors, UG cables, HT structure, OCBs, switch gears.
11. Methods of earth testing and knowledge about resistance value to be maintained in various installations in Railways.
12. Energy conservation followed in Railways.
13. Maintenance of centrifugal pump, submersible pump, VT pumps etc.
14. Overhauling of AC ceiling fans, light fitting, motors and TL fans regulators etc.
15. First aid practices and artificial respiration, any other items pertaining to this trade
16. Testing of transformer oil.
17. Size of wire gauges of current ratio

18. Safety equipment in Substation /Switch room.

19. Substation Layout

20. Maintenance and operation of DG sets.

21. Maintenance of CLS AT panels.

22. Maintenance of UPS system for PRS/UTS

23. Official Language policy and rules.

Annexure-IISYLLABUS FOR TECH-III/TL AGAINST 25% LDCE QUOTA

1. How to use the measuring instrument calipers, micrometers, voltmeter, ammeter, energy measures, tri-vector meters, instantaneous relay timers.
2. Knowledge about method of testing insulation resistance in electrical installations such as wiring, motors, UG cables, switch gears.
3. Methods of earth testing in coaches.
4. Testing and maintenance of cells and battery charger.
5. Knowledge about wiring of TL coaches and sizes of wires used in TL coaches.
6. Various equipment used in TL coaches and their capacities, various capacity of MCBs used in TL coaches, sizes of fuse wires and their ratings.
7. Knowledge about alternators/generators/ motors.
8. System of TL voltage and their advantageous fire precaution to be followed in TL coaches various methods of fire fighting equipments.
9. Fire aid practices and artificial respiration, any other items pertaining
10. DC meter Types.
11. Size of wire gauges of current ratio.
12. Types of belts and method of replacement in TL coaches.
13. Knowledge about checking of axle policy suspension arrangement of under gear equipments.
14. Capacity of batteries used in TL coaches and method of charging at yard.
15. Fortnight inspection of TL cells, testing of alternator, regulators of TL coaches
16. Checking of earth fault in TL coach
17. Various types of fittings used and wattage in various types of coaches.
18. Modified diagram of TL coaches
19. Anti theft measure in TL systems, Fire prevention measures.
20. En-route attention, PF duty.
21. Knowledge about EFT connection.
22. Trouble shooting of TL coaches
23. Official Language policy and rules.
