



PBC No:155/2024

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)563/IX/Tech.III S&T(LDCE)

दिनांक/Dated: 08.08.2024

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, SRCETC/TBM, ZETTC/AVD,
DPOs/SPOs/WPOs/APOs of HQ/Divisions /Workshops/Units.

विषय/Sub : Syllabus for the post of Tech.Gr.III/Signal & Telecom
in Level- 2 against 25% LDCE quota- S&T Dept- reg.
संदर्भ/Ref.: Rly. Bd's letter No.E(NG)2018/PM8/1/PT.1(E-3431465)
Dated-16.04.2024.

The Syllabus for the post of Tech.Gr.III/Signal & Telecom in Level- 2 against 25% LDCE quota approved by PCSTE is enclosed for information, guidance and necessary action.

This has the approval of competent authority.

संलग्नक/Encl.02 pages

सहायक कर्मचारी संबंधी अधिकारी/Asst. Personnel Officer / IR & Trg.
कृते प्रमुकाधि/for Principal Chief Personnel Officer

प्रतिलिपि/Copy to: The General Secretary/SRMU
The General Secretary/AISCTREA
The General Secretary/AIOBCREA
The General Secretary/NFIR
IT Section/PB/HQ - to upload in the SR website.

**Syllabus for LDCE for Centralized Computer Based Test (CCBT) for
Tech-III/Signal**

I. GENERAL

- ❖ Organization Structure of Railways and S&T Department.
- ❖ Organization Structure of S&T.

II. SAFETY

- ❖ Passenger Safety by duly following Safe working Rules
- ❖ Personal safety while working on the Railway Track, RE area, LC gates
- ❖ Fire Safety-Automatic Fire Detection & Suppression System
- ❖ First aid and cleanliness.
- ❖ Knowledge of Hand signals
- ❖ Protection of evidence at accident sites.

III. TRAIN OPERATION

- ❖ Test room working, Control office working.
- ❖ Disconnection & Reconnection procedures.

IV. SIGNALING SYSTEMS

- ❖ Measuring equipment-Multimeter, Voltmeter, Cable Meggering equipment, Hydrometer, Earth tester
- ❖ Cable: Types of cables, colour coding, earth leakage device(ELD), Insulation resistance value.
- ❖ Points - Periodical maintenance & breakdown attendance of field portion of Point.
- ❖ Track Circuits - Periodical maintenance & breakdown attendance of field portion of Track Circuit.
- ❖ Signals - Periodical maintenance & breakdown attendance of field portion of Signals.
- ❖ Power Supply System - Periodical maintenance of integrated power supply, chargers, inverters, battery bank
- ❖ Level crossing gates-Periodical maintenance & breakdown attendance of Interlocking arrangement of mechanical lifting barrier . Periodical maintenance & breakdown attendance of Sliding boom, Electrically Operated Lifting barrier, Road warning Signals, Hooter.

**Syllabus for LDCE for Centralized Computer Based Test (CCBT) for
Tech-III/Tele**

I. GENERAL:

- ◆ Organization Structure of Railways and S&T Department.
- ◆ Organization Structure of S&T.

II. SAFETY

- ◆ Passenger Safety by duly following Safe working Rules
- ◆ Personal safety while working on the Railway Track, RE area, LC gates
- ◆ Fire Safety-Automatic Fire Detection & Suppression System
- ◆ First aid and cleanliness.
- ◆ Knowledge of Hand signals.
- ◆ Emergency Socket (EMC), Connecting telephones, usage of Mega phones, satellite phones, Protection of evidence at accident sites.

III. TRAIN OPERATION

- ◆ Test room working, Control office working, Control Communication, Wayside Equipment, DTMF Equipment, VHF System, Walkie Talkie.

IV. TELECOM SYSTEMS

- ◆ Measuring equipment-Multimeter, Voltmeter, Cable Meggering equipment, Hydrometer, Earth tester
- ◆ Cable: Types of cable, colour coding, Insulation resistance value, Optical Fiber Cable & its splicing, Quad Cable & its Jointing.
- ◆ Power Supply System - Periodical maintenance of integrated power supply, chargers, inverters, battery bank
- ◆ Passenger amenities - Integrated Passenger Information System (IPIS), GPS Clocks, CCTV, PA System, ISS
- ◆ Periodic Maintenance and Breakdown of Electronic Exchanges, IP Exchanges, Telephone Instrument, Video Conference System, Tele Conference System, Railnet, TVs, Monitors, Computer System, Projectors, Smart TV, Cable TV System.