



भारत सरकार / Government of India
दक्षिण पूर्व रेलवे / South Eastern Railway
खड़गपुर मंडल / Kharagpur Division

कार्यालय

मंडल रेल प्रबंधक (का) खड़गपुर

DRM (P)/ Kharagpur

दिनांक:- 13-08-2025

संख्या/No. SER/P-KGP/EL/209/CCBT/Tech-III (ELS)/QSQ/ Syllabus /2025

To,
The Sr. DEE/TRS/ELS/SRC & Sr. DEE/OP/KGP
South Eastern Railway

विषय /Sub:- Approved Uniform Syllabus for the post of Tech-III (ELS), Level-2 of TRS
wing against 25% QSQ in Electrical Department over South Eastern Railway.

संदर्भ/Ref:- APO/HRMS/GRC's letter No. SER/P-HQ/EL/CCBT/Tech-III (ELS)/QSQ/
Syllabus/2025, Date: 12.08.2025.

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Enclosed please find APO/HRMS/GRC's letter under reference, which contains Approved Uniform Syllabus for the post of Tech-III (ELS), Level-2 of TRS wing against 25% QSQ in Electrical Department over South Eastern Railway; is forwarded herewith for information the staff concerned.

The Uniform Syllabus is also available on the website- www.ser.indianrailways.gov.in.

Encl:- 02 pages

सहायक कार्मिक अधिकारी

Asstt. Personnel Officer

कृते वरि. मंडल कार्मिक अधिकारी

for Sr. Divl. Personnel Officer

दक्षिण पूर्व रेलवे खड़गपुर

S. E. Railway/ Kharagpur

दक्षिणपूर्वरेलवे/SOUTH EASTERN RAILWAY

मुख्यालय/Headquarters
कार्मिकविभाग/Personnel Department,
11, गार्डनरीचरोड/11, Garden Reach Rd,
कोलकाता-43/Kolkata-700043

No. SER/P-HQ/EL/CCBT/Tech-III(ELS)/QSQ/Syllabus/2025

Dated: 12.08.2025.

To,
The Sr. Divisional Personnel Officer,
South Eastern Railway/CKP/RNC/ADA/KGP.

Sub: Approved uniform Syllabus for the post of Tech-III(ELS), Level-2 of TRS wing against 25%QSQ in Electrical Department over S.E.Rly.

In order to conduction of CCBT, a uniform syllabus for the post of Tech-III(ELS), Level-2 of TRS wing against 25% QS Quota has been prepared and got approved by the Competent Authority i.e. CELE/SER/GRC which is enclosed herewith in Annexure-'A'.

It is therefore requested for wide circulation of the same and the same is also available on the website- www.ser.indianrailways.gov.in.

Encl: Annexure-'A'.

P BHASKAR Digitally signed by P
BHASKAR RAO
Date: 2025.08.12
16:11:25 +05'30'
RAO (P. Bhaskar Rao)
Asstt. Personnel Officer (HRMS)
for Pr. Chief Personnel Officer

Copy forwarded for information to the:

- 1) Secy. to PCEE for kind information of PCEE/GRC.
- 2) PS to PCPO for kind information of PCPO/GRC.
- 3) CELE/GRC.
- 4) Sr. DEE(TRS/RSM/OP)/CKP/ADA/RNC/KGP.
- 5) APO(HQ)/GRC.
- 6) APO(Ruling)/GRC.
- 7) OS/HRMS for uploading in the official website.

for Pr. Chief Personnel Officer

**Draft syllabus for TECH-III (ELS), Level-2 of TRS Wing against 25% QS
Quota of Electrical Department over S.E. Railway**

1. General Mathematics

Elementary mathematics class 10th standard.

2. General Science

Current, Voltage, Ohm's Law, Kirchhoff's law, Resistance, Capacitance, Inductance, Units, Series and parallel of Resistance, Single Phase AC Circuit, Power, KWH/Units. (Class 10th level)

3. Electric Rolling Stock (Locomotive)

AC Locomotives, main equipment, general layout and major equipment ratings, Traction, control and auxiliary circuit of WAG7, WAP4, WAG9 and WAP7 locos, pneumatic circuit. Brake systems, Maintenance practices adopted for locos. Bogie and suspension, Wheel, TFRW, Rheostatic braking, Regenerative Braking, loco safety items. Newly adopted equipment, General over view of three phase locomotive, short notes, TSD and abbreviations, Personnel and protective safety gears, Type of Fire extinguishers, Materials handling, Tools, Plant and Machinery.

4. Rajbhasha

Articles, Religion A, B & C, Official language & National language, and translation to Hindi.

5. About Railway

Organization structure, Zone/Divisions, PHOD's, MR, MOSR, Electric Loco Shed, PSU, Institute.

6. General Awareness and Current Affairs

General Awareness and Current Affairs.

7. Establishment

Rules relating to leave, passes, travel on duty, Railway accommodation and Staff Welfare, Discipline and Appeal Rules, Conduct Rules. Hours of employment rules.

8. Stores

Stock & Non-stock items and DMTR.

This has approval of the Competent Authority.