



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

कार्यालय / Office
मंडल रेल प्रबंधक (का) / खड़गपुर
DRM (P) / Kharagpur
दिनांक:- 09-07-2025

संख्या/No. SER/P-KGP/EL/209/2/Uniform Approved Syllabus/Tech.-III(AC)/QSQ/25

To,
The Sr. DEE/G/KGP & SRC, ADEE/G/GRC

विषय /Sub:- Approved Uniform Syllabus for selection to the post of Tech.- III (AC), L-2
against 25% QSQ in Elect. (G) Department over South Eastern Railway.

संदर्भ /Ref:- APO/HRMS/GRC's letter No. SER/P-HQ/EL/Tech-III(AC)/QSQ/Syllabus/2025/
CN: 301870, Date: 07.07.2025.

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

Encl:- 02 pages

(L. Mohapatra)

सहायक कार्मिक अधिकारी
Asstt. Personnel Officer
कृते वरि. मंडल कार्मिक अधिकारी
for Sr. Divl. Personnel Officer
दक्षिण पूर्व रेलवे/खड़गपुर
S. E. Railway/ Kharagpur

दक्षिण पूर्व रेलवे/SOUTH EASTERN RAILWAY

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

No. SER/P-HQ/EL/Tech-III(AC)/QSQ/Syllabus/2025/CN: 301870

Dated: 07.07.2025

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

Sub: Approved Uniform Syllabus for selection to the post of Tech-III(AC), L-2 against 25% QSQ of Genl. Services wing in Electrical Department over South Eastern Railway.

In order to Standardize the Syllabus for conduction the selection to the post of Tech-III(AC), L-2 against 25% QSQ of Genl. Services wing in Electrical Department over South Eastern Railway through CBT, the Syllabus as enclosed in **Annexure-'A'** have been prepared and approved by the Competent Authority i.e. CEGE/GRC. This maybe circulated to all concerned so as to enable all the probable candidates to prepare themselves for the forthcoming examinations.

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

Encl: Annexure- 'A'

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P BHASKAR RAO
RAO Date: 2025.07.07
15:28:25 +05'30'

(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. CEGE/GRC.
4. Sr. DEE(Genl.)/ADA/CKP/KGP/RNC.
5. APO(HQ)/GRC.
6. APO(Ruling)/GRC.
7. OS/HRMS for uploading in the official website.

for **Pr. Chief Personnel Officer**

Annexure-A

Approved Uniform Syllabus for Selection through CBT towards promotion to the post of Tech-III(AC), Level-2 against 25% QSO of Genl. Services wing in Electrical Deptt. over S.E.Railway.

(A) Basic Electrical & Math

1. Basic knowledge of Current, Voltage, Resistance, Impedance, Power, Energy, Efficiency
2. Math-Basic knowledge of Time & Distance, percentage, interest, Profit/Loss.
3. Basic knowledge of Air Conditioning cycle, Compressor, Condenser, Evaporator, Expansion Valve etc.
4. Logical Reasoning
5. Energy efficiency measures in electrical assets.
6. Principles of working of Measuring Tools in Electrical circuits such as Voltmeter, Ammeter, Insulation tester, Earth Resistance tester, Multimeter, Clamp Meter etc
7. Safety in electrical installation: Earthing and Protective Devices.
8. Personal Safety, Firefighting for Electrical fires.

(B) Electrical (G) Coaching: For different type Non-AC coaches (SG, LHB)

1. Basic knowledge of different types of batteries used in AC Coaches, working principles and maintenance methods.
2. Principles of working & Technical details (Rating, Protection, Maintenance Schedule & Troubleshooting) of Alternators, Air conditioning (RMPU) systems, Switch Board Cabinet of LHB coach, watering system used in Railway Coach applications.
3. Electrical equipment Layout in AC coach.
4. Fire preventive measures & firefighting in AC coaches.

(C) RAJBHASHA

1. Rajbhasha.
2. Official Language Act 1963.
3. Official Language Rules 1976.
4. Translation English to Hindi & Vice versa.

This has the approval of the Competent Authority.