

दक्षिणपूर्वरेलवे/SOUTH EASTERN RAILWAY

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

दिनांक/Dated: 16.01.2025

संख्या/No. SER/P-HQ/EM/JE(C&W)/DPQ/Syllabus/2025

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

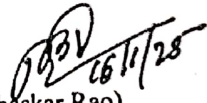
Sub:	Uniform Syllabus for the post of JE(C&W) against 25%DPQ in Mechanical Department over S.E.Rly
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In order to Standardize the Syllabus for conduction the Selection through CCBT, the Syllabus as enclosed in Annexure-'A', has been prepared for probable candidates of the category of JE(C&W), L-6 against 25% DPQ of Mechanical Department over South Eastern Railway. This maybe circulated to all concerned so as to enable all the probable candidates to prepare themselves for the forthcoming examinations.

This has the approval of the Concerned HOD.

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

Encl: Annexure-'A'.


(P. Bhaskar Rao)
Asstt. Personnel Officer (HRMS)
कृतेप्रधानमुख्यकार्मिकअधिकारी
for Pr. Chief Personnel Officer

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- 1) Secy. to GM for kind information of GM.
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- 5) Sr. DME/KGP/CKP/ADA/RNC
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- 7) APO(Ruling).
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**Uniform Syllabus for the post of JE(C&W) against 25% DPO in Mechanical
Department over S.E.RLY**

Sl No	Freight Stock-
1	Different types of freight stock- <ol style="list-style-type: none"> Open wagon- BOXN and its variant, Covered wagon- BCN and its variant, Flat wagon- BRN and its variant, Hopper wagon- BOBRN, BOBSN, BOBYN etc. Container wagon- BLC, BLL Brake Van- BVZC, BVZI & BVCM <p>Special features. New wagon numbering system.</p>
2	Name and functions of different components of wagons
3	Types of bogie and its components with overhauling procedure. Use of different types of gauges for trolley measurement.
4	Wagon body- Repair of door, door way cross bar pressing, side stanchion, sole bar, body bulge out, door operating mechanism of different wagons.
5	Wagon defects, IRCA rule & NTXR.
6	Procedure of ROH of wagon.
7	Sick line repairs of wagon.
8	Pattern of freight train examination- <ol style="list-style-type: none"> Closed Circuit rake Examination (CC) Premium Examination End to End Examination with sequence of examination & testing FMM, RFID, BPC, Man-Hour requirement for examination.
9	Air brake system- Principal of Conventional and BMBS, Single pipe and Twin pipe braking system. Working of different make air brake system. RTR, SWTR, calculation of brake power. Working of LSD, APM. Maintenance and trouble shooting of SAB, DV, Brake cylinder, Dirt collector etc.
10	Heavy Repair of Wagon- CBC components, Sole bar, riveting, Huck bolting etc. and gauging of wagon components.
11	Condemnation of wagon, warranty claim of components
12	ODC
13	Recent development in freight stock
14	In-motion weigh bridge & WILD, Wagon Tippler
15	Wheel dimensions and defects
16	Brake binding, Train parting and Hot axle/ CTRB failure, cause & remedial measures.

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Sl No	Coaching Stock
1	Different type of coaching stock and its special features, Coach numbering & Transportation codes.
2	Name & functions of different components of ICF & LHB coaches- Roller bearing, Draw and Buffing gear, Air brake equipments, Brake gear equipments, Suspension arrangement, Wheel & Axle, Coach interior fittings, safety and passenger amenities, Furnishing materials, FIBA, PEV & PEASD etc.
3	Procedure of upper gear examination of coaching trains at depot
4	Procedure of under gear examination of coaching trains at depot.
5	Examination of coaching trains, Maintenance Schedules of ICF & LHB coaches.
6	Sick line repair of coaches- CBC components, Sole bar, body repair, pressurized watering/ flushing system, corrosion etc.
7	Issue of BPC, Rolling in examination, CMM and Revised Maintenance Policy Circular no.4.
8	Brake binding, Train parting and Hot axle/roller bearing failure-cause & remedial measures.
9	Air brake testing-RTR, SCTR and calculation of brake power.
10	Condemning limits of various coach components and warranty claim.
11	Corrosion in coaching stock.
12	Standard facilities for 24 coaches rake in coaching depot.
13	DSR Card, coach failure and warranty claim.
14	Vande-Bharat train sets and associated sub-assemblies.
15	Mechanized coach cleaning, OBHS, pest control.
16	Linen Management- Mechanized cleaning of linen.
17	Gauging of coaching components & testing of FSDS, FDSS, WSP etc.
18	Operation & maintenance of Bio-toilets & other toilet accessories

Sl No	Others
1	Raj Bhasa, Official language policy and rules.
2	Different class of Accidents, Disaster Management in Indian Railways, ART & ARME.
3	Derailment Mechanism, Site measurement and Investigation
4	Store-Stock & Non Stock items, store Imprest, Stock and Non Stock requisitions, Inventory Control, Scrap disposal, Material procurement.
5	Establishment matters- Pass rules, Leave rules, D & A rules, HOER, Retirement & death benefit, Staff welfare etc.
6	Welding techniques of wagons & coaches.
7	Arithmetic & Science upto 10+2 (HIS) level and General knowledge.

This syllabus issues with the approval of the competent authority.

Signature
16/1/25

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