

No. DMW/P.S/11-T&P/JE(Ranker)/TM-Ftr

Date: 22.3.2018

**Sub: Syllabus for the post of JE, Scale Level-6/GP-4200- (TM Ftr).**

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The syllabus for selection to the post of JE, Scale Level-6/GP-4200- against 25% Rankers' quota is given below:-

**SECTION-I      General and Establishment knowledge.**

1	D&AR Rules: Various definitions, the applicability, suspension and issue of minor penalty Chargesheet, appeals, since the Sr. Subordinates are authorized to issue minor penalty chargesheets etc.
2	Rules for engagement and discharge of casual labour/substitutes and knowledge of relevant sections in the Industrial Disputes Act.
3	Workmen's compensation Act. and Factory Act
4	Hours of Employment regulation, Various types of leave which can be granted to staff, Rly. Service Conduct Rules.
5	General knowledge about working of various other department in Railways, Staff Council and Rules of its formation/working, Canons of Financial Properties
6	राजभाषा संबंधी संघ सरकार की राजभाषा नीति, केन्द्रीय सरकार के कार्यालयों में राजभाषा हिन्दी के प्रयोग प्रसार को बढ़ाने के लिए कर्मचारियों को कौन कौन से प्रोत्साहन पुरस्कार दिये जाते हैं। डी एम डब्ल्यू में राजभाषा हिन्दी के प्रयोग प्रसार को बढ़ाने के लिए कर्मचारियों को कौन कौन से प्रोत्साहन पुरस्कार दिये जाते हैं। हिन्दी अंग्रेजी शब्दकोष व प्रचलित नोटिस/ टिप्पण से परिचय।

**SECTION-II . SHOP MANAGEMENT:**

1	Knowledge of function of Time office and procedure order for Gate passes.
2	Knoweldge of incentive scheme work order system, booking of labour hours etc. production planning and control and workshop documents proceeding
3	Stock and Non stock items and procedure for Indentification and drawal stores and return of serviceable and scrap items of Stores Depot
4	Various registers maintained in shop and their need
5	Stock verification authorities and periodicity.
6	Various safety measures to be followed on the shop floor in general and for various machines and equipments in particuars
7	Staff protective clothing and their entitlements
8	Methods of control of consumption of stores and electric energy.

## SECTION-III: TECHNICAL KNOWLEDGE:

**GENERAL:-** Elementary knowledge of mathematics, Laws of Physics.

1	Principal of DC & AC rotating machines and their characteristics.
2	Procedure for AC Motor stator armature coil manufacturing, insulation scheme and testing procedure.
3	Knowledge of various insulating materials, and varnishes used for coil manufacturing, rewinding and field coil re-insulation and their major electrical properties.
4	Construction details of various models of motors and generators of diesel electric locomotives, their dis-assy, assy, and test procedures.
5	Knowledge of procedure for rewinding AC Motor stator armatures of motors and generators, stage testing and qualifying parameters.
6	Working principle of various test equipments, viz; megger MV drop tester, surge tester, Tan-delta tester, Core loss tester, HV tester, Micro-ohm meter and their application.
7	Knowledge of procedure of Resisters banding, TIG Welding vacuum impregnation, dynamic seasoning, dynamic balancing, vapour degreasing etc.
8	Knowledge of carbon brushes, roller bearings, brush gears, brush gear staggering, neutral axis setting, lubricants used on traction machines.
9	Knowledge of critical dimensions of magnet frame, AC Motor stator, rotor armature shaft and end fittings.
10	Knowledge about ISO-9001, 14001, 18001 & 50001.

वरिष्ठ कार्मिक अधिकारी

कृते उप मुख्य यात्रिक अभियंता/TMS

प्रतिलिपि :-

Dy.CME/TMS

Ch.OS/ Security Cell

Concerned Staff.