



SOUTHERN RAILWAY

CHENNAI / DIV

Notification

Digitally Signed.
Name: S THYAGARAJAN
(TIQMIR)
Date: 05-Aug-2026 16:54:13
Location: MASD/SR

System Generated Notification No. : MASD/10729/2/S7481/M200/O200

Date : 05/08/2026

Subject : Sub: Selection for the post of Junior Engineer/TRS in Level-6 of VII PC against 25% Promotional Quota from serving employees of @ ELS/AJJ Electrical Department - reg

Last Date of application : 03/09/2026

A. Cadre Details

Department	ELECTRICAL			Sub-Department	TRS
Cadre ID	Technical Supervisors - Electrical TRS - SR.DEE/RS/AJJ (89218)			Cadre Level	Junior Engineer (10729Pay Level: 6)
Intake Type	PQ			Intake %	25.00%

B. Details of Vacancies

Note : Net vacancy is inclusive of PWBD vacancy as reservation for PWBD is horizontal reservation.

Net Vacancies					PwBD Vacancies				
#	SC	ST	UR	Total		a	b	c	d&e
Total	1	0	1	2	Backlog	0	0	0	0
					Current	0	1	0	0
					Total	0	1	0	0

C.

1. NOTIFICATION NO. 09/2026 1. It is proposed to conduct a selection for the post of Junior Engineer/TRS /ELS/AJJ in Level-6 of 7th CPC pay matrix in Electrical Department/MAS Division against 25% promotional quota. The break up of vacancies are UR-1, SC-1 & ST-0. 2. Employees who are eligible as per terms and conditions, shall submit their applications "on-line" through HRMS portal only. Employees who shall remain eligible till completion of the selection will be empanelled and shall be found fit AYE THREE medical classification during the medical examination as and when conducted. 3. After scrutiny, the list of eligible employees appearing in the selection will be notified in the HRMS portal. Hence employees may keep a constant watch to get updates. 4. It shall be the responsibility of the supervisors concerned to give wide publicity about this notification including those who are working out side the division on temporary transfer/deputation etc., whose lien is with MAS division, as well as those who are eligible on leave or on sick list.

D. Service condition

1. The list of senior most eligible staff working as Sr. Technicians & Technician-I of ELS/AJJ Loco Sheds of Chennai Division in Level 6 & 5 of VII PC Pay Matrix and who are in the normal zone of consideration in 1:3 ratio based on their integrated seniority published.

E. Required Education Qualification

1. NA

F. Required Medical Fitness

1. Mandatory Fitness required in

G. Syllabus for the Examination

1. The syllabus prescribed for selection to the post of JE/TRS Loco Shed Promotional Quota (PBC 285/2024) is enclosed as Annexure .

H. Pre Promotional Training Requirement

1. Pre-promotional training will be organized by the Controlling Officer covering the syllabus for prescribed period for employees belonging to SC/ST communities - in terms of Railway Board's letter No.96-E(SCT)-1/80/1 Pt.XVII dated 15.12.1997 (RBE 174/1997). JE/ELS/AJJ- PPT will be imparted to SC/ST employees only as the vacancies are earmarked for SC only. In case, if any SC employees express unwillingness for PPT, a written declaration to that effect may be obtained and forwarded to this office for record. The final panel will be purely provisional and subject to further orders which may be passed by the Hon'ble Supreme Court as laid down in RBE 91/2018 (PBCno.116/2018) and clarification issued by PCPO/MAS on PBC 116/2018 & 141/2019 vide letter No. P(S) 171/Resn/Policy/2020, dated: 18.03.2020. The final panel is also subject to the outcome of any litigations and subsequent Railway Board guidelines on the issue of charging reserved employees who attended Pre-Promotional Training.

I. Mode of Selection

1. The selection will consist of written examination and perusal of record of service in terms of Railway Board's letter No.E(NG)2000/PN1/41 dated 07.08.2003. Seniority is also a component of the selection. A candidate has to obtain a minimum of 60% marks in Professional Ability i.e. in written examination for being considered for further selection process of perusal of Service Record. (APAR, Education Qualification, Penalty/Award) The post of Junior Engineer/Loco sheds being classified as Safety Category post, there is no relaxation in qualifying marks to employees belonging to the category of SC/ST and hence they are also required to secure 60% marks in the written examination

J. Written Examination

1. The selection consists of written test as per Board's letter No.E(NG)/1/2018/PM1/4 dated 14.12.2018 (RBE 196/ 2018). The Question Paper will be 100% Objective type multiple choice questions. In terms of PBC.No.205/2016, 10% of the total marks will be set on Official Language Policy and Rules. But the questions on the same will not be of compulsory in nature and is purely optional. Question will be made available in English and Hindi only (PBC 176/2025). In terms of Railway board letter No.E(NG) 1/2018/PM 1/4 dated 14.11.2019 (RBE 194/2019) there will be no negative marking for wrong answer in selections against departmental quota where panel is arranged in the order of seniority from those qualified. The written examination will be conducted in Centralized Computer Based Test mode.(PBC.02/2025) Electronic devices will not be allowed inside the examination hall and the violators of the above guidelines will be taken up under DAR. In terms of IREM Para 223(1) (i) (a) to(c), Supplementary written examination will be conducted only for those employees who are not able to attend the main examination due to following circumstances. I. Those who could not be relieved due to Administrative reasons (or) II. Sickness(RMC) of the employee (or) III. Any other reason which is beyond the control of the employee

K. Procedure of drawal of Panel

1. A candidate must secure a minimum of 60% marks in the Professional Ability and 60% marks in the aggregate for consideration of placement in the panel and the final empanelment is subject to the availability of vacancies (PBC 50/2006). There is no mark relaxation for SC/ST candidates. as this is "UR" Vacancy and also safety category. The names of the selected candidates will be arranged in the order of seniority but those securing a total of 80% or more marks in the aggregate will be classified as 'OUTSTANDING' and placed in the panel appropriately in the order of their seniority allowing them to supersede not more than 50% of total field of eligibility.

L. Prerequisite for Submission Of Application

1. Employee should fill in the details in the on-line mode (HRMS). All details to be thoroughly checked before final submission of application online in HRMS. Once submitted, no change of details can be done except for a change request submitted in the ESS module. 2. In case any changes to be made about the basic data in HRMS, separate requests shall be submitted in the ESS module with supporting documents and indicate the changes required in remarks column for confirmation of changes warranted before final eligibility list is published. 3. In case of any difficulties, kindly contact the respective sectional Welfare Inspectors and/or Ch.OS/Elec/Shed Cadre at Sr.DPO office.

M. Grounds for Rejection of Application

1. The administration reserves the right to restrict the number of candidates to be called for selection in terms of para 7.2 of Master Circular 31.

N. Post Empanelment Conditions

1. Employees who are selected and placed in the provisional panel will be directed to undergo the mandatory initial training at ELS/AJJ. Promotion will be only on successful in completion of the training. Date of assigning seniority in the promoted post will be governed by provisions contained in Chapter-3 of IREM Vol.I

O. Tentative Timeline

1. last date for submission willingness/option 03/09/2026

P. Attached Annexure List

Sr	Type	Remarks
1	Syllabus for the exam PBC 285/2024	

Signed by:

S THYAGARAJAN
APO
SR/CHENNAI /DIV

Copy To (HRMS ID) :

Concerned Employee:

Copy To :

Sr.DEE/ELS/AJJ
Sr.DEE/OP/MAS } for kind information
SSE /ELS/AJJ
Ch / OS / Elec. - Cadre& Bills,
Employee concerned – Through HRMS
Divl.Secy/SRMU,
Divil Secy/DREU
Divl.Secy/AISC/ST REA,
Divil.Sec/AIOBC REA

Annexures



PBC No.285/2024

दक्षिणरेलवे Southern Railway
प्रधानमुख्यकार्मिकअधिकारीकार्यालय
Office of the Principal Chief Personnel Officer
प्रधानकार्यालय, कार्मिकविभाग, चेन्नै-600003
Headquarters, Personnel Department, Chennai-600003

सं/No:P(S)563/VII/Elect/TRS-PRQ & LDCE [Comp.No.520378] दिनांक/Dated:27.12.2024

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, ZETTC/AVD, ETC/PER,
DPOs/SPOs/WPOs/APOs of HQ/Divisions/Workshops/Units.

विषय/Sub: Syllabus for the post of Junior Engineer/ Electrical/ TRS in
Level-6 against 25% Promotional quota and 25% LDCE
Intermediate Apprentice quota @ Loco Sheds and Car Sheds
of Electrical Department.

संदर्भ/Ref: 1) Railway Board's letter No.E(NG)/2022/PM1/36 dated 08.02.2024
(RBE No.11/2024) under PBC No.21/2024 dated 13.02.2024.
2) PCPO/MAS' letter No.P(Co-ord) CCBT/2024 dated 20.11.2024
(PBC No.253/2024).

The syllabus for the post of Junior Engineer/ Electrical/ TRS in Level-6 against
25% Promotional quota and 25% LDCE Intermediate Apprentice quota approved by
PCEE as under, are enclosed for information, guidance and necessary action.

- 1) Junior Engineer / Electrical / TRS (PQ) – Loco Sheds.
- 2) Junior Engineer / Electrical / TRS (LDCE) – Loco Sheds.
- 3) Junior Engineer / Electrical / TRS (PQ) – Car Sheds.
- 4) Junior Engineer / Electrical / TRS (LDCE) – Car Sheds.

This has the approval of the competent authority.

संलग्नक/Encl.: 6 pages.


(R. Rajesh Kumar)

Asst.Personnel Officer/C,M&E
for Principal Chief Personnel Officer

प्रतिलिपि/Copy to: The General Secretary/SRMU
The General Secretary/DREU
The General Secretary/AISCTREA
The General Secretary/AIOBCREA
The General Secretary/NFIR

IT Section/PB/HQ - to upload on the SR website.

SYLLABUS FOR THE POST OF JE/TRS(PQ)/ Loco Sheds

I. GENERAL:

- 1 Knowledge of English should be able to carry on- day to day correspondence, submit reports and understand departmental rules safety regulations, etc.
- 2 Should be able to prepare estimates, Schedule of materials and labour for the execution of works, should understand the drawings and sketches and be able to guide and instruct staff under him.
- 3 Should be conversant with the procedure for obtaining and accounting stores, booking of labour and maintaining muster rolls etc.
- 4 Should be conversant with Establishment matters such as DAR, Leave Rules, Pass Rules etc, departmental procedure regarding HOER, Factories Act, Booking of overtime and Stores matters etc.

II. OFFICIAL LANGUAGE POLICY AND RULES:

III. TECHNICAL:

- 1 Should know the principles of electro-magnetism, details of construction and application to various types of electrical machines and appliances such as motors, transformers, Relays etc.
 - 2 Should be fully conversant with different types of windings used in armatures of DC motors and generators & stators and rotors of AC Machines.
 - 3 Should be able to test, locate and rectify faults in armature and field coils of electrical machines and accessories.
 - 4 Should know uses of various types and sizes of wires and cables, their current carrying capacities, different types of installations, windings, binding, baking, shellacing, varnishing etc., including Y, A, B, C, E, F & H class insulation.
 - 5 Should be familiar and conversant with the various types of measuring and testing Instruments.
 - 6 Should be fully conversant with operation and Maintenance of machinery such as pumps, transformers, motors, starters and associated protective devices.
 - 7 Should be proficient in the details of and the electric traction equipment in locomotives
 - 8 Should be familiar with Fire detection unit, flasher and safety item provided in Locos.
 - 9 Should be able to test all control and power, control and auxiliary circuits of conventional as well as Three phase Locos.
 - 10 Should be familiar with activities involved in Trip, IA, IB, IC Inspection Schedules and TOH/IOH/POH schedule maintenance (Electrical, Pneumatic, Mechanical and Testing portion complete).
 - 11 Should be conversant with all type of brake system in both Locos and EMUs
 - 12 Should understand Latest developments in LOCO like KAVACH, VCB, SIV, FDCS and VCD etc.
 - 13 Should be familiar with basic functions of GTO/IGBT, SR, BUR, VCU and its working in Three Phase Locos.
 - 14 Should understand the drawing and specifications of mechanical components of rolling stock
 - 15 Should be proficient in the repairs of mechanical components of rolling stock such as bogies, under frames, axle boxes, brake gear, draft and buffer gear, body repair work etc., and be conversant in standard moving dimensions, condemning Size of wheels etc.
 - 16 Should be thoroughly conversant with re-metaling of-suspension bearings and overhauling procedure of-Axle Roller bearings.
 - 17 Should be well conversant with safety precautions, rules for safe working on Electrical equipment , GRS for 25 KV OHE traction system, TXR hand book and First aid procedure etc.
 - 18 Should be conversant with the working principle of Air Compressors, Air Dryer, Pantograph, Brake Cylinders, pneumatic gauges, pressure switches, safety valves, brake controller, brake electronics & Parking brake etc. for conventional and Three phase Locos.
 - 19 Should be conversant with the Brake testing of conventional and three phase Locos.
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SYLLABUS FOR THE POST OF JE/TRS(LDCE)/ Loco Sheds

I. GENERAL:

- 1 Knowledge of English should be able to carry on- day to day correspondence, submit reports and understand departmental rules safety regulations, etc.
- 2 Should be able to prepare estimates, Schedule of materials and labour for the execution of works, should understand the drawings and sketches and be able to guide and instruct staff under him.
- 3 Should be conversant with the procedure for obtaining and accounting stores, booking of labour and maintaining muster rolls etc.
- 4 Should be conversant with Establishment matters such as DAR, Leave Rules, Pass Rules etc, departmental procedure regarding HOER, Factories Act, Booking of overtime and Stores matters etc.

II. OFFICIAL LANGUAGE POLICY AND RULES:

III. TECHNICAL:

(A). MECHANICAL:

- 1 Should know the general Mechanical principle and their applications.
- 2 Should be fully conversant with operation and the maintenance of Air compressors, pumps, hydraulic jacks, vacuum exhausters, EOT cranes, machine tools, welding plants, Lathes and other workshop machinery etc.
- 3 Should be proficient in the repairs of mechanical components of rolling stock such as bogies, under frames, axle boxes, brake-gear, draft and buffer gear, body repair work etc., and be conversant in standard moving dimensions, condemning Size of wheels etc.
- 4 Should be thoroughly conversant with re-metaling of-suspension bearings and overhauling procedure of-Axle Roller bearings.
- 5 Should be conversant with the mechanical equipment such as gauges used for checking dimensions etc.
- 6 Should be proficient in the use of various type of paints and primers their specification and covering capacity etc.
- 7 Should understand the drawing and specifications of mechanical components of rolling stock.
- 8 Should be fully conversant for the process of preparation of surfaces for basic and final coats of primers and paints mixing to the correct shades, prevention-against corrosion in Locos.
- 9 Should be well conversant with safety precautions, rules for safe working on Electrical equipment , GRS for 25 KV OHE traction system, TXR hand book and First aid procedure etc.
- 10 Identification of Corrosion and its related repair activities in Locos
- 11 Should be conversant with the different Welding Techniques.
- 12 Should be conversant with Wheel lathe operation and checking of Wheel profile.

(B). PNEUMATIC:

- 1 Should be conversant with the working principle of Air Compressors, Air Dryer, Pantograph, Brake Cylinders, pneumatic gauges, pressure switches, safety valves & Parking brake etc. for conventional and Three phase Locos.
- 2 Should be conversant with working principle and maintenance of Pneumatic valves, Brake controller etc. & Brake Electronics system of Three phase Locos.
- 3 Should be conversant with the laying and repair of Pneumatic Pipe lines and fittings.
- 4 Should be conversant with the Brake testing of conventional and three phase Locos.

(C). ELECTRICAL:

- 1 Should know the principles of electro-magnetism, details of construction and application to various types of electrical machines and appliances should as motors, transformers, Relays etc.
- 2 Should be fully conversant with different types of windings used in armatures of DC motors and generators & stators and rotors of AC Machines.
- 3 Should be able to test, locate and rectify faults in armature and field coils of electrical machines and accessories.

- 4 Should know uses of various types and sizes of wires and cables, their current carrying capacities, different types of installations, windings, binding, baking, shellacing, varnishing etc., including Y, A, B, C, E, F & H class insulation.
 - 5 Should be conversant with the procedures in drying out and impregnating armatures etc. and operations and repairs of the impregnating plant.
 - 6 Should be familiar and conversant with the various types of measuring and testing Instruments.
 - 7 Should be fully conversant with operation and Maintenance of machinery such as pumps, transformers, motors, starters and associated protective devices.
 - 8 Should be proficient in the details of and the electric traction equipment in locomotives as well as EMUs.
 - 9 Should be familiar with Fire detection unit, flasher and safety item provided in Locos.
 - 10 Should be able to test all control and power, control and auxiliary circuits of conventional as wells as Three phase Locos.
 - 11 Should be familiar with activities involved in Trip, IA, IB, IC Inspection Schedules and TOH/IOH/POH schedule maintenance (Electrical, Pneumatic, Mechanical and Testing portion complete).
 - 12 Should be conversant with all type of brake system in both Locos and EMUs
 - 13 Should understand latest developments in LOCO like KAVACH, VCB, SIV, FDSC and VCD etc.
 - 14 Should be familiar with basic functions of GTO/IGBT, SR, BUR,VCU and its working in Three Phase Locos.
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SYLLABUS FOR THE POST OF JE/TRS(PQ)/ CS

I. GENERAL:

- 1 Knowledge of English should be able to carry on- day to day correspondence, submit reports and understand departmental rules safety regulations, etc.
- 2 Should be able to prepare estimates, Schedule of materials and labour for the execution of works, should understand the drawings and sketches and be able to guide and instruct staff under him.
- 3 Should be conversant with the procedure for obtaining and accounting stores, booking of labour and maintaining muster rolls etc.
- 4 Should be conversant with Establishment matters such as DAR, Leave Rules, Pass Rules etc, departmental procedure regarding HOER, Factories Act, Booking of overtime and Stores matters etc.

II. OFFICIAL LANGUAGE POLICY AND RULES:

III. TECHNICAL:

- 1 Should know the principles of electro-magnetism, details of construction and application to various types of electrical machines and appliances such as motors, transformers, Relays etc.
 - 2 Should be fully conversant with different types of windings used in armatures of DC motors & generators, stators and rotors of AC Machines.
 - 3 Should be able to test, locate and rectify faults in armature and field coils of electrical machines and accessories.
 - 4 Should know uses of various types and sizes of wires and cables, their current carrying capacities, different types of installations, windings, binding, baking, shellacing, varnishing etc., including Y, A, B, C, E, F & H class insulation.
 - 5 Should be familiar with the various types of measuring and testing Instruments.
 - 7 Should be conversant with the power and control circuits in the Electrical Multiple Units/MEMU and Electric Locos.
 - 8 Should be fully conversant with operation and Maintenance of machinery such as pumps, transformers, motors, starters and associated protective devices.
 - 9 Should be fully conversant with operation and the maintenance of Air compressors, pumps, hydraulic jacks, vacuum exhausters, EOT cranes, machine tools, welding plants, Lathes and other workshop machinery etc.
 - 10 Should be proficient in the repairs of mechanical components of rolling stock such as bogies under frames, axle boxes, brake gear, draft and buffer gear, body repair work etc., and be conversant in standard moving dimensions, condemning Size of wheels etc.
 - 11 Should be well conversant with safety precautions, rules for safe working on Electrical equipment , GRS for 25 KV OHE traction system, TXR hand book and First aid procedure etc.
 - 12 Should be conversant with Wheel lathe operation and checking of Wheel profile.
 - 13 Should be able to test all control and power circuits, earth connections etc., for electric rolling stock both locos and EMU/MEMUs.
 - 10 Working principles, Maintenance & Troubleshooting of GPS (Global Positioning Systems) provided in EMU coach and its related Hardware & Software. Ensuring the function of the accessories such as (a). Head Code (b). BD-Display Board (C). ICDB-In coach Display Board (d). AAU-Audio Amplifier unit & speakers (e). DDC/TCU-Driver Desk Control/Train Control Unit (f). Antenna connections etc.
 - 11 Should be conversant with activities involved in Trip, IA, IC Inspection Schedules and POH schedule maintenance (Electrical, Pneumatic, Mechanical and Testing portion complete).
 - 12 Should be conversant with the working principle of Air Dryer, Pantograph, Brake Cylinders, pneumatic gauges, pressure switches, safety valves & Parking brake etc. for AC EMU/MEMU & Three phase AC EMU/MEMUs
 - 13 Should be conversant with working principle and maintenance of EP units, Pneumatic valves, Brake controller etc. & Brake system of EMU Coaches.
 - 14 Should be conversant with the Brake testing of EMU/MEMU rakes
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SYLLABUS FOR THE POST OF JE/TRS(LDCE)/ CS

I. GENERAL:

- 1 Knowledge of English should be able to carry on- day to day correspondence, submit reports and understand departmental rules safety regulations, etc.
- 2 Should be able to prepare estimates, Schedule of materials and labour for the execution of works, should understand the drawings and sketches and be able to guide and instruct staff under him.
- 3 Should be conversant with the procedure for obtaining and accounting stores, booking of labour and maintaining muster rolls etc.
- 4 Should be conversant with Establishment matters such as DAR, Leave Rules, Pass Rules etc, departmental procedure regarding HOER, Factories Act, Booking of overtime and Stores matters etc.

II. OFFICIAL LANGUAGE POLICY AND RULES:

III. TECHNICAL:

(A). MECHANICAL:

- 1 Should know the general Mechanical principle and their applications.
- 2 Should be fully conversant with operation and the maintenance of Air compressors, pumps, hydraulic jacks, vacuum exhausters, EOT cranes, machine tools, welding plants, Lathes and other workshop machinery etc.
- 3 Should be proficient in the repairs of mechanical components of rolling stock such as bogies under cranes, axle boxes, brake gear, draft and buffer gear, body repair work etc., and be conversant in standard moving dimensions, condemning Size of wheels etc.
- 4 Should be thoroughly conversant with re-metaling of-suspension bearings and overhauling procedure of-Axle Roller bearings.
- 5 Should be conversant with the mechanical equipment such as gauges used for checking dimensions etc.
- 6 Should be conversant with work turned out in the EMU workshop and know marking, pointing, assembling, parceling, finishing carpentry and upholstery.
- 7 Should be proficient in the use of various type of paints and primers their specification and covering capacity etc.
- 8 Should be understood the drawing and specifications of mechanical components of rolling stock.
- 9 Should be fully conversant for the process of preparation of surfaces for basic and final coats of primers and paints mixing to the correct shades, prevention-against corrosion in coaches.
- 10 Should be well conversant with safety precautions, rules for safe working on Electrical equipment , GRS for 25 KV OHE traction system, TXR hand book and First aid procedure etc.
- 11 Identification of Corrosion and its related repair activities in EMU coaches
- 12 Should be conversant with the different Welding Techniques.
- 13 Should be conversant with Wheel lathe operation and checking of Wheel profile.

(B). PNEUMATIC:

- 1 Should be conversant with the working principle of Air Compressors, Air Dryer, Pantograph, Brake Cylinders, pneumatic gauges, pressure switches, safety valves & Parking brake etc. for AC EMU/MEMU & Three phase AC EMU/MEMUs
- 2 Should be conversant with working principle and maintenance of EP units, Pneumatic valves, Brake controller etc. & Brake system of EMU Coaches.
- 3 Should be conversant with the laying and repair of Pneumatic Pipe lines and joints of MS and stainless steel fittings.
- 4 Should be conversant with the working principle & troubleshooting of Air suspension fitted in the EMU/MEMU Coaches.
- 5 Should be thorough with the work activities of Retro fitment of conventional coaches with Air suspension arrangement.
- 6 Should be conversant with the Brake testing of EMU/MEMU rakes.

(C). ELECTRICAL:

- 1 Should know the principles of electro-magnetism, details of construction and application to various types of electrical machines and appliances should as motors, transformers, Relays etc.
 - 2 Should be fully conversant with different types of windings used in armatures of DC motors and generators & stators and rotors of AC Machines.
 - 3 Should be able to test, locate and rectify faults in armature and field coils of electrical machines and accessories.
 - 4 Should know uses of various types and sizes of wires and cables, their current carrying capacities, different types of installations, windings, binding, baking, shellacing, varnishing etc., including Y, A, B, C, E, F & H class insulation.
 - 5 Should be conversant with the procedures in drying out and impregnating armatures etc. and operations and repairs of the impregnating plant.
 - 6 Should be familiar with the various types of measuring and testing Instruments.
 - 7 Should be conversant with the power and control circuits in the Electrical Multiple Units/MEMU and Electric Locos.
 - 8 Should be fully conversant with operation and Maintenance of machinery such as pumps, transformers, motors, starters and associated protective devices.
 - 9 Should be proficient in the details of and the electric traction equipment in locomotives as well as EMUs.
 - 10 Should be conversant with maintenance and operation of Mechanical equipment of the rolling stock such as brake gear, Vacuum cylinders and accessories, draw & buff gears, alarm chain etc., also standard moving dimensions, condemning sizes of wheels etc.
 - 11 Should be able to test all control and power circuits, earth connections etc., for electric rolling stock both locos and EMU/MEMUs.
 - 12 Should be conversant with the working and use of common types of measuring and testing instruments.
 - 13 Working principles, Maintenance & Troubleshooting of GPS (Global Positioning Systems) provided in EMU coach and its related Hardware & Software. Ensuring the function of the accessories such as (a). Head Code (b). BD-Display Board (C). ICDB-In coach Display Board (d). AAU-Audio Amplifier unit & speakers (e). DDC/TCU-Driver Desk Control/Train Control Unit (f). Antenna connections etc.
 - 14 Should be conversant with all type of brake system in both Locos and EMUs
 - 15 Latest developments in LOCO/EMUs like TPWS, VCB, SIV, FDCS and VCD etc.
 - 16 Three phase AC EMU/MEMU working principles, Power circuits, Auxiliary circuits, Electrical Equipment, Brake system and equipment fitted for that purpose, Bogies, Advantages over Conventional EMUs.
 - 17 Activities involved in Trip, IA, IC Inspection Schedules and POH schedule maintenance (Electrical, Pneumatic, Mechanical and Testing portion complete).
-