

सवारी डिब्बा कारखाना /INTEGRAL COACH FACTORY-चेन्न /CHENNAI-600 038

महाप्रबन्धक का कार्यालय General Manager's Office,

कार्मिक शाखा Personnel Branch,

दिनांक Dated: 7/04/2015.

संख्या /No. PB/S3/13/2014-2015

अधिसूचना/NOTIFICATION

All SSE/Ch.OS/OS concerned :

Sub: Selection for the posts of Senior Instructor/Elec, Senior Trade Instructor /Elec(Ex-cadre) and Instructor Gr.I /Elec (Ex-cadre) in Electrical Department.

It is proposed to conduct selection for the post of Senior Instructor/Elec in Pay Band ₹.9300-34800+4600GP Senior Trade Instructor /Elec in Pay Band ₹.9300-34800+4200GP and Instructor Gr. I/Elec(Ex-cadre) in pay band ₹.5200-20200+2800GP in the Electrical Department for the posts as indicated below:

Sl. No	Category	Pay Band Rs.	Trade	No. to be empanelled
1	Senior Instructor /Elec(Ex-Cadre)	9300-34800 +4600 GP	Electrical	1
2	Senior Trade Instructor /Elec (Ex-Cadre)	9300-34800 +4200 GP	Electrical	1
3	Instructor Gr.I/Elec(Ex-Cadre)	5200-20200 +2800 GP	Electrical	1
TOTAL				3

Eligibility Condition:

Applications are invited for the post of Sr.Instructor/Elec/TTC from staff of Electrical Department (excluding Electrical Designs) and having regular cadre status in the same Grade Pay as Sr. Sec. Engineer/Elec i.e., in 4600 GP.

However, for the posts of Sr.Trade Instructor & Instructor Gr.I, employees below two grades have been called for in terms of Rly. Bd's Lr. NO.E(MPP)2002/13/2 Dt.04/01/2007.

The position held by the employee against ex-cadre posts will not be taken into consideration for this purpose. Employees working in ex-cadre posts in TTC and have already completed 8 years tenure period need not apply. Employees who had worked earlier in the ex-cadre post are eligible to apply only after a cooling period of 3 years in the shop cadre.



Cont...

Sl. No	Grade	Service Condition	Essential Qualification
1	Senior Instructor 9300-34800+4600 GP	Employees working as SSE in Pay Band Rs.9300-34800+4600 GP in the Electrical Department.	Diploma/Degree/PG Degree in Engineering in any branch; <u>Or</u> Employees selected as Intermediate App. Mechanic (JE/Elec) against serving employees quota
2	Senior Trade Instructor/ Electrical 9300-34800 +4200 GP	Junior Engineer in Pay Band Rs.9300-34800+4200 GP belonging to the trade of Electrical. Sr. Technician in Pay Band Rs.9300-34800 + 4200 GP and Technician Gr.I in Pay Band Rs.5200-20200 + 2800 GP belonging to the trade of Electrical.	Diploma / Degree / PG Degree in Engineering in any branch; <u>Or</u> Employees selected as Intermediate App. Mechanic/Electrical against serving employees quota <u>Or</u> ITI / NCVT / SCVT Apprenticeship in the Electrical trade
2	Instructor Grade.I/ Electrical. 5200-20200 +2800GP	1. Technician Gr. I in Pay Band Rs.5200-20200+2800GP of the same trade. 2. Technician Gr. II in Pay Band Rs.5200-20200+2400 GP 3. Technician Gr. III in Pay Band Rs.5200-20200+1900GP.	ITI / NCVT / SCVT Apprenticeship in the particular trade

In terms of Board's letter No.E (MPP) 2002/13/2 dated 04/01/2007, selection of trainers should be done from identical grades only. In case no willing candidates apply for the same, candidates below one / two grades can be considered, provided the post at the training centre is either downgraded matching with the scale of pay of the selected candidates or transfer the element of the post in which the incumbent was working in his parent cadre. Only when adequate volunteers in same Grade Pay do not apply, employees who volunteer from one/two grades below will be considered for the post of Senior Trade Instructor/Electrical and Instructors Gr. I/Electrical.

Senior Trade Instructor/Electrical

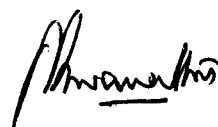
In case, no application is received in identical grade for Senior Trade Instructor/Elec i.e. JE then only employee belonging to Sr. Tech/Techn.Gr.1 will be considered.

Instructor Gr. I/Electrical

In case, no application is received in identical grade for Instructor/Elec i.e. Technician Gr.1 then only employee belonging to Techn.Gr.2/Techn.Gr.3 will be considered.

How to apply and last date :

Applications should be submitted in the proforma as in Annexure A to their controlling Officers / Supervisors on or before **28/04/2015**. The supervisory officials will forward the applications to SPO/W in one lot on or before **30/04/2015** certain. Applications received after the last date and sent individually by the employees will not be entertained under any circumstances.



Cont...

::3::

Mode of selection:

The eligible volunteers will be subjected to a WRITTEN TEST in terms of Railway Bd's letter No.E(MPP) 2005/3/14 dated 03/10/2005. They will also be subjected to a practical teaching ability test as part of the selection followed by a viva-voce. The written examination is fixed on **16/05/2015** at 10.00 hrs at TTC. Syllabus for the examination is enclosed as Annexure -B.

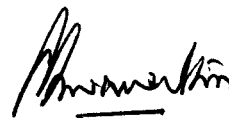
Empanelled employees will be required to prepare a lesson plan and deliver a lecture for a minimum period of half an hour.

Tenure:

Tenure of posting of selected staff shall not exceed 8 years under any circumstances. Employees selected and posted to these posts are liable to be transferred only on completion of the tenure period of 8 years in terms of Board's letter NO.E (MPP)2001/19/3-RECOMM.37 dated 29/06/2001. However they will be allowed to return to their parent cadre earlier than 8 years only on promotion or after a minimum period of 3 years. As and when they are repatriated from ex-cadre post to parent cadre, they will be repatriated to their position which they would have occupied in their parent cadre but for their posting in ex-cadre. While working in ex-cadre post, they will be considered for promotion in their parent cadre according to their seniority position. They are clearly given to understand that their posting in ex-cadre would not confer on them any right or claim for promotion / seniority or selection in ex-cadre and the administration reserves the right to transfer them back to their parent cadre even before the specified period in the interest of the administration.

Training Allowance:

Railway servants who are selected to the above mentioned posts at Technical Training Centre will draw training allowance at 15% of their basic pay as long as they work in TTC in their existing capacity in terms of Board's letters No.E(MPP0/98/13/1 dated 01/05/1998 and No.E (MPP) 2002/13/2 dated 04/01/2007.



DY.CHIEF PERSONNEL OFFICER/II

No.PB/S3/13/2014-15, dt.07/04/2015.

Copy to:CEE, CEGE, Dy.CEE/EMU, Dy.CEE/P. Fur, Dy.CEE/Con/S. Ch.OS/CON, Ch.S&W/G/S & F: for exhibiting in the Office Notice Board.

Principal/TTC:- He is requested to kindly provide accommodation for conducting written exam on 03/06/2015.

Syllabus for Sr.Instructor/Electrical/TTC Selection

Basic Workshop Science: SI Units, Mass, Force, Weight, density, work, power Energy – Definitions & related Problems Speed, Velocity & Acceleration problems.

Basic Electrical Engineering

Electrical properties of metals, Resistivity, temperature coefficient of resistance, Electrical circuits, Active and passive components, Series and parallel circuits, AC and DC circuits. Resonance circuits, Basic principle of DC machines, Starting and speed control techniques of DC motors. Basic principles of AC machines, Starting techniques of 3phase and single phase induction motors, Dynamic braking and regenerative braking concepts. Causes of low power factor and power factor improvement. Basic principles of transformer, Basic principles of measuring instruments, Moving coil, moving iron, electro dynamometer type and induction type instruments, measurement of power and frequency, power factor meter. Cells and batteries, alkaline and acid batteries, charging of batteries, constant voltage and constant current method. IE rules. Substation equipments, Earthing resistance and earth fault detection.

Basic electronics

Principles of pn junction diode, BJT, zener voltage regulator, Series voltage regulator, Half wave, full wave and bridge rectifier, Classification of amplifiers, IGBT devices, Variable frequency drives, VVVF control, Pulse width modulation concepts, Logic gates and its applications.

Basic Workshop Calculation: Simultaneous equation, Trigonometry, menstruation problems

Finding weight using density & volume

Simple problem on work, power energy.

Engineering drawing: Isometric View, Orthographic view-Free hand Sketches, electrical symbols, free hand sketches of windings, starters, single line diagram of sub station.

ICF coaches

Basic principle of working of MUTP coaches, DEMU coaches, LHB coaches, conventional coaches, AC coaches and power cars, Basic principle of working of special coaches like JDCC, HS_SPART, DETC, DHTC.

General Topics:

Safety Aspects at workplace, IMS Policy, Tools, gauges and measuring instruments, Production processes adopted in ICF

Inspection methods – sampling – third party inspection – Type tests – Routine tests – acceptance tests, ERP concepts

Merits and demerits of outsourcing, Official language Act – importance & Implementation, Incentive system adopted in ICF with maximum ceiling – problems only, Budget preparation, Stores procedure for indenting items – S1302, S1313, S1323, S1539. Pass Rules & Leave Rules, DAR Rules.



ANNEXURE – B

Syllabus for Sr.Instructor/Electrical/TTC Selection

Basic Workshop Science: SI Units, Mass, Force, Weight, density, work, power Energy – Definitions & related Problems Speed, Velocity & Acceleration problems.

Basic Electrical Engineering

Electrical properties of metals, Resistivity, temperature coefficient of resistance, Electrical circuits, Active and passive components, Series and parallel circuits, AC and DC circuits. Resonance circuits, Basic principle of DC machines, Starting and speed control techniques of DC motors. Basic principles of AC machines, Starting techniques of 3phase and single phase induction motors, Dynamic braking and regenerative braking concepts. Causes of low power factor and power factor improvement. Basic principles of transformer, Basic principles of measuring instruments, Moving coil, moving iron, electro dynamometer type and induction type instruments, measurement of power and frequency, power factor meter. Cells and batteries, alkaline and acid batteries, charging of batteries, constant voltage and constant current method. IE rules. Substation equipments, Earthing resistance and earth fault detection.

Basic electronics

Principles of pn junction diode, BJT, zener voltage regulator, Series voltage regulator, Half wave, full wave and bridge rectifier, Classification of amplifiers, IGBT devices, Variable frequency drives, VVVF control, Pulse width modulation concepts, Logic gates and its applications.

Basic Workshop Calculation: Simultaneous equation, Trigonometry, menstruation problems

Finding weight using density & volume

Simple problem on work, power energy.

Engineering drawing: Isometric View, Orthographic view-Free hand Sketches, electrical symbols, free hand sketches of windings, starters, single line diagram of sub station.

ICF coaches

Basic principle of working of MUTP coaches, DEMU coaches, LHB coaches, conventional coaches, AC coaches and power cars, Basic principle of working of special coaches like JDCC, HS_SPART, DETC, DHTC.

General Topics:

Safety Aspects at workplace, IMS Policy, Tools, gauges and measuring instruments, Production processes adopted in ICF

Inspection methods – sampling – third party inspection – Type tests – Routine tests – acceptance tests, ERP concepts

Merits and demerits of outsourcing, Official language Act – importance & Implementation, Incentive system adopted in ICF with maximum ceiling – problems only, Budget preparation, Stores procedure for indenting items – S1302, S1313, S1323, S1539. Pass Rules & Leave Rules, DAR Rules.



Syllabus for Sr.Trade Instructor/Instructor/Electrical/TTC Selection

Basic Workshop Science: SI Units, Mass, Force, Weight, density, Work, Power Energy – Definitions & related Problems Speed, Velocity & Acceleration problems.

Basic Electrical Engineering

Electrical properties of metals, Resistivity, temperature coefficient of resistance, Electrical circuits, Active and passive components, Series and parallel circuits, Basic principle of DC machines, basic principles of AC machines, Starting techniques of electrical motors, Basic principles of transformer, Basic principles of measuring instruments, Moving coil, moving iron, electro dynamometer type and induction type instruments, Basic Electricity Problems, IE rules.

Basic electronics

Principles of pn junction diode, BJT, regulator, rectifier, IGBT

Basic Workshop Calculation: Simultaneous equation, Trigonometry, menstruation problems

Finding weight using density & volume

Simple problems on work, power energy.

Engineering drawing: Isometric View, Orthographic view – Free hand Sketches, electrical symbols, free hand sketches of windings, starters, single line diagram of sub station

General Topics:

Safety Aspects at workplace

IMS Policy

Tools, gauges and measuring instruments

Production processes adopted in ICF.

