

15

SOUTH WESTERN RAILWAY

No. L/P.C. /App.Mech/IAM/Vol.VI

Carriage Repair Workshops,
Personnel Branch,
Hubballi Dated: 18-12-2020

ALL CONCERNED /MECHANICAL DEPT /UBLS

Sub: Selection for the post of Intermediate Apprentice Mechanics in stipendiary in Level-06 of Pay Matrix against 25% IAM Quota drawn from serving Artisan staff in skilled and higher grades in Mech.Dept. /UBLS.

It is proposed to conduct a selection for formation of panel to the post of Intermediate Apprentice Mechanics in Stipendiary in Level-06 of Pay Matrix Against 25% IAM Quota in Mechanical Dept. The break-up of vacancies assessed are as under:

UR	SC	ST	Total
09	03	01	13

2. ELIGIBILITY AND SERVICE CONDITION:

2.1 All serving staff in Artisan Category from Technician in Level-02 of Pay Matrix and higher grades {i.e. Level-2 to Level-06} with minimum 3 years of service in skilled grade as on 18-12- 2020 are eligible to appear for selection.

2.2 Must have passed matriculation with ITI or Act. Apprenticeship or 10+02 in science stream or its equivalent examination (attested copy or certificates in support of possessing ITI/Act Apprenticeship or 10+02 in science stream or its equivalent must be invariably attached). The qualification of ITI/Act Apprenticeship should be in trades relevant for eventual absorption in the category for which the selection is conducted i.e. trades relevant to the post of Junior Engineer (Mechanical Dept)

2.3 If the employee otherwise eligible and possessing the qualifications of Degree or Diploma in the relevant branch of Engineering are also be eligible to volunteer to appear in the selection for induction as Intermediate Apprentices along with the qualification of ITI/Act Apprenticeship or 10+02 (science stream)

2.4 In respect of employees who have reported/ joined on this workshop on Inter Railway/Inter Divisional Request transfer on bottom seniority, the service rendered in old unit will count for the purpose of qualifying service for promotion in the new seniority unit provided:

- (i) He/She is otherwise eligible to be considered for selection to Group 'C' post as per extant rules, and
- (ii) The Category in which he/she was working in the old unit is an eligible category for the selection/post in the new unit also.

2.5 The volunteering staff should be below the age 47 years in the case of General/OBC candidates and the upper age limit for SC/ST candidates would be 52 years as on the date of issue of notification i.e. 18 -12-2020

3. MODE OF SELECTION:

The selection consists of written test and assessment of record of service. The candidate has to obtain a minimum of 60% marks in professional ability i.e. written examination, for being considered for further process of assessment of service record. The final panel will be drawn in the order of merit.

4. SYLLABUS :

The Syllabus for selection to the post of Junior Engineer against 25 % intermediate Apprentice Mechanics is enclosed Annexure " B"

5. **PROCEDURE FOR WRITTEN EXAMINATION:**

5.1 In terms of Railway Board's letter No. E(NG)I/2018/PM1/4 dated: 14-12-2018 (RBEs No.196/2018, No. 97/2019 and No. 194/2019):

- (i) The written examination will consist of 100% objective type questions.
- (ii) All questions will be multiple choice only. Duration will be 2 hrs.
- (iii) Cutting, overwriting, Erasing or Alteration of any type will not be accepted. Zero marks will be given for answer having correction/overwriting.
- (iv) There will be **negative marks** for wrong answers, one third of the mark allotted for each question will be deducted for wrong answers

5.2 In terms of extant instructions, questions on official language will form part of the Professional ability for 10% of total marks. The questions on official language policy are compulsory but there shall not be compulsion on the part of the employee to answer such questions.

6. **PRE-SELECTION TRAINING:**

Pre-selection training to SC/ST employees will be imparted for a period of 3 to 4 weeks. The schedule for the same will be advised in due course.

7. **DATE OF EXAMINATION:**

The date, venue and time of written examination will be intimated in due course. However, it is to be advised to the volunteers that there will be no supplementary examination, since the selection is by calling volunteers.

8. **TRAINING:**

The selected candidates will have to undergo prescribed training for a period of 01(one) year. On successful completion of training, they will be absorbed in the working post of Junior Engineer in Level-06 of Matrix in Mechanical Department.

9. **OTHER CONDITIONS:**

- (i) The Trainees will be entitled for privileges and allowances on the basis of their substantive cadre post till they are absorbed in the working post.
- (ii) They will draw their existing pay or the stipendiary pay whichever is more during the training period and on absorption in the working post, the pay will be regulated as per extant rules as applicable.

10. **LAST DATE FOR SUBMISSION OF APPLICATION:**

The willing and eligible volunteers have to submit their application in the prescribed pro-forma (pro-forma "A" enclosed) to the controlling Supervisors on or before **30-01-2021**, The controlling Officers/Supervisors have to forward all the applications in one bunch to Personnel Branch on or before **04-02-2021**. **Incomplete applications and the applications without attested copies of certificates viz. educational /technical qualification and the applications received after the stipulated date will not be entertained.**

All concerned should give wide publicity of this notification duly exhibiting the same on the Notice Board.

Encl: 1. Application pro-forma (Annexure-A)

2. Syllabus (Annexure-B)

(MAHESH ABBIGERI)
WPO/UBLS
For Chief Workshop Manager

Copy to: PS to CWM for kind information of CWM
Copy to: Dy.CWM and AWMs
Copy to: Confidential section, for infmn. & n/a.
Copy to: The Secy/SWRMU, Secy/AISCSTREA & Secy/AIOBCREA

PROFORMA

Application for the post of Intermediate Apprentice Mechanics in Stipendiary scale in Level-6 of pay matrix against 25% Intermediate Apprentice Mechanics quota in Mechanical Department/Hubli Workshops:

- 1. Name (in Block Letters) :
- 2. Ticket No. /P.F.No./NPS No. :
- 3. Shop :
- 4. Designation :
- 5. Present pay Band & Gr. Pay :
- 6. Date of Birth :
- 7. Date of Appointment :
- 8. Capacity of Initial appointment :
- 9. Whether belong to SC/ST/OBC :
- 10. Date of Promotion to skilled grade if any:
- 11. Educational Qualification :
- 12. Technical Qualification :

I, wish to appear for the above selection in response to the notification L/P.98/App Mech/IAM/Vol.VI dated: 18-12-2020.

Date: _____ Signature of the Employee _____

No. _____ Shop _____
Date: _____

The Particulars furnished above are verified and found correct.

(Official seal)

Signature & designation of forwarding Official

SYLLABUS FOR SELECTION TO THE POST OF JE-MECH (IAM) WORKSHOP WING

1.	Knowledge about the Air Brake System on ICF design coaches Testing procedure of Air Brake system & knowledge about the single car testing.
2.	Knowledge about the BMBC and its advantages over UFM (under Frame mounted) brake system.
3.	Operations to be carried out by POH workshop during POH of ICF design coaches
4.	Knowledge of ICF coach bogie design features and overhauling, cleaning methods, load transfer principle.
5.	Modifications to be carried out in ICF design coaches by the workshop during POH.
6.	Stage inspections to be carried out during POH of coaches
7.	Knowledge about the various clearances in bogie, draft gear and buffing gear etc.
8.	Identification of corrosion in coaches causes for corrosion, corrosion preventive method implemented in Railway passenger coaches repair method of heavy corrosion coaches.
9.	Knowledge about trough floor repair methods in ICF design coaches.
10.	Different type of Upholstery provided in the various ICF design coaches
11.	Different type of materials used for interior paneling and roofing of ICF design coaches.
12.	Workshop organization & management production Control Organization(Planning, Progress & Inspection) incentive system, Productivity improvement, Quality system, process flow & layout planning, material handling, storage & movement of materials, Machinery & plant.
13.	Inspection Procedures of non-stock and stock items.
14.	Knowledge on inspection of interior of coaches including various modifications pertaining to passenger amenities and safety
15.	Preparation of process sheets and other incentive documents.
16.	Concept of load centers, out in load & discharge load etc.
17.	Knowledge on the system and procedures of Production Control Organization incentive system in vogue. The advantages and disadvantages of the Chittaranjan Pattern of incentive scheme in Railway workshops.
18.	Knowledge on preparation of different types of estimates
19.	Basic knowledge about organization of stores department. Knowledge of stores procurement and disposal procedures of materials
20.	Economical batch quantity for production of different items.
21.	Knowledge on different work order system followed in shops
22.	Stores procedures-procurement of materials-stock and non stock drawl from materials, shop manufactured items & budgeting.
23.	English- parts of speech, gender, synonymous & antonymous, type of sentences, letter writing.
24.	Knowledge of D.A.R minor and major penalties, conduct rule, leave rules, pass rules and Gate Attendance Rules.
25.	Fire safety, pollution control, Pressure vessels-Repair/Testing, knowledge about accidents on shop floor, basic first aid to be rendered and duties and responsibilities of the supervisors during accident inside the Factory. Knowledge about Factory Act, workmen compensation Act, Hours of employment Regulation act. Use of personnel protective equipment.
26.	Organization of Indian Railways- Railway Board-Zonal Railway- Division and extra-division-Productions units, Current knowledge of Railway Ministry, Current affairs pertaining to Railways, knowledge of COFMOW, RDSO, RITES, CAMTECH, CWE, CRSE, RCF ICF RVNL, IRCON etc.
27.	Official Language/Rajbhasha-Constitutional provision of official language-its scripts-various incentive available for OL Implementation.
28.	Geometric construction of various geometric flags, bisecting a line, angle, construction of various polygons, construction of simple isometric and orthographic view.
29.	Ratio & proportion, profit and loss, LCM & HCM, test of divisibility.
30.	Basic Algebra, addition, subtraction, multiplication & division or algebraic simple equations Law of indices, simple simultaneous equation and its applications.

31	Type of angle, congruency of triangle, conversion between degree to radiant, basic geometric properties of various Polygram.
32	Basic trigonometry, property of triangle and its various ratios, basic identity values of various angle, related angle, height and distance.
33	Menstruation-perimeter, Area, Volume of various regular geometrical area, three dimensional objects and its simple applications.
34	Various element of wheel profile, Roller bearing of wheels in ICF design and CTRB for LHB coaches, method of compensating wheel wear adopted in various coaches.
35	Different types of gauges, templates used in wheel shop, measuring instrument such as micro meter, venire caliper, dial bore gauge and its working principle. GO and No-GO gauges. Knowledge about the least count etc.
36	Knowledge on different types of welding methods such as MMAW, MIG/TIG, advantages of CO2 welding with conventional metal arc welding.
37	Working principle of various metal cutting methods used in Railway workshops, knowledge about the Oxy Acetylene cutting, Oxy BCG cutting, Oxy LPG cutting, Plasma cutting etc.
38	Various types of electrodes used for welding, knowledge about the flux used for various welding, electrode used in CO2 and other MIG welding.
39	Nomenclature of electrode and its classification, different grades of electrodes.
40	Preservation of electrode and precaution to be taken while welding with flux coated welding rod.
41	Knowledge about the edge preparation and its significance in welding.
42	Knowledge about the various defects in welding such as welding crack, under cut, inclusion porosity and ineffective penetration.
43	Various inspection methods for inspection of well-meant quality knowledge about the grading of welders.
44	Various types of machine tools-lathe, milling machine, shaper, planer quick return mechanism, operation principal milling and lathe machine, difference between shaper and planer.
45	Various type maintenance schedule for production machinery & over head crane used in workshop.
46	Fabrication & sheet metal works of various components, workshops repair practices & latest development, Reading & understanding of Mechanical drawings.
47	Composition of various alloys and various steels. Various raw materials used for manufacturing different components used in coaching stock. Procedure of Heat treatment. Iron Carbon diagrams, Tempering, Hardening, Annealing and Normalizing of steel.