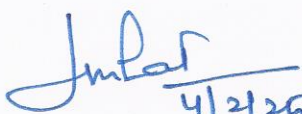


Sub: Syllabus for the J.E. exam in painter trade.

	<b>TECHNICAL KNOWLEDGE</b>
1	Importance of painting. Types of painters: residential, commercial, industrial.
2	Knowledge of methods to remove old paint – scraping, heating, using paint removers (lime, caustic soda, etc.).
3	Knowledge of precautions for cleaning surfaces with appropriate solutions.
4	Knowledge of brushes, rollers, sprayers, and their uses. Safety equipment (gloves, masks, goggles, etc.)
5	Types of surfaces: wood, drywall, metal, concrete, plaster, etc. Surface cleaning and repair techniques. Sanding, filling cracks, priming, and sealing.
6	Knowledge of different types of primers, surface preparation, and their application.
7	Knowledge of water-based (latex), oil-based, enamel, and specialty coatings. Advantages and disadvantages of each type.
8	Knowledge of techniques for achieving smooth, even finishes. How to handle various surfaces (rough, smooth, textured).
9	Knowledge of different types of adhesives, glues, and masking papers used in painting.
10	Awareness of various painting techniques.
11	Knowledge of safety measures while using paints and chemicals. PPE (Personal Protective Equipment) use. Safe handling of chemicals, paints, and solvents. Ventilation and working in confined spaces
12	Knowledge of eco-friendly paints and low-VOC options.
13	Knowledge of anti-corrosive paints, fire-retardant coatings. Epoxy coatings, non-slip finishes.
14	Knowledge of defects in paints and precautions to prevent them.
II	<b>SHOP MANAGEMENT</b>
1	Knowledge of functions of time office and procedure orders for gate passes.
2	Knowledge of incentive scheme, work order system, of labour hours, etc., production planning and Control and workshop documents processing.
3	Stock and non-stock items and procedure for Indenting and drawl of stores and return of serviceable and scrap items to stores Depot.
4	Various registers maintained in shops and their need.
5	Stock verification authorities and periodicity.
6	Various safety measures to be followed on the shop floor in general and for machines and equipment's in particular.
7	Staff protective clothing and their entitlements.
8	Methods to control consumption of stores and electric energy.
9	Knowledge of ISO 9001-2015, 14001: 2015, 18001: 2007 (updated to ISO 45001: 2018) Its implementation & various sources of pollution and their control measures. Knowledge of ISO 50001 and its advantages.
III	<b>MATHEMATICS</b>
1	The questions will be of high school standard in Arithmetic, Algebra and Trigonometry.

<b>IV</b>	<b>GENERAL &amp; ESTABLISHMENT KNOWLEDGE</b>
1	D&AR Rules: Various definitions, the applicability, suspension and issue of minor penalty charge sheets etc.
2	Rule for engagement and discharge of casual labours / substitutes and knowledge of relevant sections in the Industrial Employees Compensation Act.
3	Factory Act.
4	Railway Servants (Hours of Work and Period of Rest) Rules, 2005
5	Various Types of leave which can be granted to staff.
6	Railway Service conducts Rules.
7	General Knowledge about working of various other departments in Railways.
8	Staff council and rules of its formation / Working.
9	Cannons of financial propriety.
<b>V</b>	<b>राजभाषा</b>
1	भारत सरकार का राजभाषानीति का समान्य परिचय।
2	राजभाषा अधिनियम 1963 तथा राजभाषा संशोधन 1976 . ..... उपरोक्त 1 एवं 2 के संबंध में व्याख्या हेतु रेल्वे बोर्ड द्वारा जारी राजभाषा हिन्दी विषयक आदेशों का संकलन ( तृतीय संस्करण 1993 ) देख सकते हैं ।
3	प्रचलित शब्दावली

  
 स.का.प्र./ई.सी.एस.  
 पी.एल.डब्ल्यू./पटियाला  
 AWM/ECS  
 P.L.W./PATIALA.

  
 4/2/25

Dy. CEE/LAS

उप मुख्य विद्युत अभियन्ता/लोको  
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