

**DETAILED SYLLABUS FOR THE POST OF JUNIOR INSTRUCTOR
PAINTER (GENERAL) IN INDUSTRIAL TRAINING DEPARTMENT -**

Cat No:666/2023

MODULE	SUBJECT	MARK
Module I	Free hand drawing and Colouring	10 Mark
Module II	Painting and Drawing tools	10 Mark
Module III	Types of Surface preparation (Metal, Wood & Wall)	10 Mark
Module IV	Types of Paints	10 Mark
Module V	Method of paintings (Metal, Wood & Wall)	10 Mark
Module VI	Painting defects & Remedies	10 Mark
Module VII	Quality testing for various paints and painted films	10 Mark
Module VIII	Basic computer knowledge	10 Mark
Module IX	Safety precautions	10 Mark
Module X	Allied trades	10 Mark
	Total Marks	100 Marks

MODULE #I Free hand drawing and Colouring

(10 Marks)

- a. Drawing pencils
- b. Drawing papers
- c. Colours
- d. Colour Schemes

MODULE #II Painting and Drawing tools

(10 Marks)

- a. Various brushes
- b. Spray Guns
- c. Cleaning tools
- d. Drawing tools

MODULE #III Types of Surface preparation

(Metal, Wood & Wall)

(10 Marks)

- a. Hand cleaning
- b. Mechanical cleaning
- c. Chemical cleaning
- d. Abrasive Blasting
- e. Corrosion

MODULE ±IV Types of paints

(10 Marks)

- a. Water base paints
- b. Oil base paints
- c. Automotive Paints
- d. Varnish and polish
- e. Ingredients of paints

MODULE ±V Method of paintings (Metal, Wood & Wall) (10 Marks)

- a. Brush painting
- b. Roller painting
- c. Stencil painting
- d. Spray painting
- e. Electrostatic painting
- f. Powder coating

MODULE ±VI Painting defects & Remedies

(10 Marks)

- a. Chalking, Peeling, Blistering, Wrinkling, Fading, Cracking, Orange peel, etc.

MODULE ±VII Quality testing for various paints and painted films (10 Marks)

- a. Fineness of Grid, Viscosity, Dry film thickness, Weight per litre, Gloss finish, etc.

MODULE ±VIII Basic computer knowledge

(10 Marks)

- a. DTP
- b. Corel draw
- c. Photoshop

MODULE ±IX Safety precautions

(10 Marks)

- a. Safety related to painting
- b. Personnel Protective Equipment
- c. Safety signs
- d. different pipeline painting as per Colour code

MODULE ±X Allied trades

(10 Marks)

- a. Carpentry hand tools and simple joints
- b. Sheet metal hand tools and simple joints
- c. Plumping hand tools and fittings

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.