

Syllabus for Written Examination for Recruitment of Vocational Instructor.

Trade:- Engineering Drawing.

Syllabus:-

Drawing Sheets-

- Viewing of engineering drawing sheets.
- Method of Folding of printed Drawing Sheet as per BIS SP:46-2003
- Basic principle of Sheet Size - Designation of sizes - Selection of sizes - Title Block, its position and content - Borders and Frames (Orientation marks and graduations) - Grid Reference - Item Reference on Drawing Sheet (Item List)

Dimension System-

- Principle of dimensioning system,
- Definition, types and methods of dimensioning (functional, nonfunctional and auxiliary) - Types of arrowhead - Leader Line with text

Drawing Instruments-

- Types, their standard and use.

Lines-

- Definition, types and applications in Drawing as per BIS SP:46-2003,
- Classification of lines – Hidden lines, centre lines, construction lines, Extension lines, Dimension lines, Section lines.
- Methods of Division of line segment.

Geometrical Figures-

- Definition, nomenclature and construction

Drawing of Angles-

- Measurement and its types, method of bisecting, Triangle -different types.

Method of presentation of Engineering Drawing -

- Pictorial View, Orthogonal View, Isometric view.

Projections:-

- Concept of axes plane and quadrant
- **Orthographic Projection-** Method of first angle and third angle projections (definition and difference), Symbol of 1st angle and 3rd angle projection as per IS specification
- **Isometric Projections-** Isometric Scales, Views of simple objects

Standard Conventions and Symbols in Civil, Mechanical and Electrical Engineering:-

- Conventions as per IS Codes
- Symbols as per Codes.

- Constructions of different Geometrical figures.

