

Unit - I

Chapter 1 : Electrical Wiring Diagram(s) 1-1 to 1-37

Syllabus

- 1.1 Electrical symbols used in electrical diagrams as per Indian standard, multiline and single line representation of conductors.
- 1.2 Electrical diagrams, their Classification. Definition of wiring and circuit (Schematic) diagram according to IS: 2042(Part-I)-1962.
- 1.3 Methods of representation for the wiring diagram- multiline and single line representation, conversion of multi line representation into single line and vice versa.
- 1.4 Fundamental principles for electrical installations, Safety in electrical work, permit to electrical work, safety instruction and safety practices
- 1.5 Scope and features of National Electrical Code 2011 (NEC 2011), Types of electrical installation- Non industrial and industrial, Standard value of voltages and their limits.

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- 2.2 General requirements and inspection of electrical installation to IS: 732 - 1982.
- 2.3 Design and drawing, estimation and costing of a residential installation having maximum 5 KW load.
- 2.4 Design consideration of electrical installation in commercial buildings. Design electrical installation scheme of commercial complex such as drawing halls and auditorium.
- 2.5 Residential building Service Connection- types Underground and overhead. Calculation of Material required for service connection.

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Unit - VI

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6-1 to 6-29

Syllabus

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