



## **TSSPDCL Junior Lineman Syllabus**

### **I.T.I (Electrical Trade) – 65 Marks**

- Fundamentals of electricity: Electrical occupational safety, tools, Ohms law, Kirchoff's law, series, parallel, Kirchoff's law and star delta, problems – Electrostatics and capacitors. Earthing principles and methods of earthing.
- Batteries: primary and secondary, lead-acid cells, methods of charging - testing and application of batteries, inverters, battery chargers, and maintenance.
- Magnetism: Magnetic materials and properties - laws of magnetism – electromagnetism, electromagnetic induction
- Fundamentals of AC: Simple problems of AC fundamentals, power, power factor, single-phase and three-phase circuits
- Basic Electronics: Electronic components, rectifiers, amplifiers, oscillators, and power electronic components
- DC Machines: construction, working principle and simple problems on DC generators and motors, speed control and applications of DC motors – windings
- Transformers: construction, working principle, basic concepts and simple problems on transformers – windings – autotransformers, power transformers, CT & PT
- AC Machines: basic concepts, construction principle and simple problems on three-phase and single-phase induction motor, universal motor, alternators,

synchronous motors and their applications and windings - concept of power electronic drives

- Electrical measurements –Different types of AC and DC measuring instruments, Domestic appliances and Illumination concepts - types of electric lamps
- Electric Power generation- thermal, hydel and nuclear, transmission and distribution system – basic concepts, non-conventional energy sources.

### **General Knowledge – 15 Marks**

- Analytical and Numerical Ability.
- Current affairs.
- Consumer Relations.
- General Science in everyday life.
- Environmental Issues and Disaster Management.
- History, Geography and Economy of India and Telangana.
- History of Telangana and Telangana Movement.
- Society, Culture, Heritage, Arts and Literature of Telangana.

### **TSSPDCL Recruitment Important Links**

- TSSPDCL Jr Lineman Recruitment 2019 For 2500 JLM Vacancies: [Click Here](#)
- TSSPDCL Junior Lineman Online Form 2019: [Click Here](#)
- TSSPDCL Jr Lineman Recruitment Notification 2019 PDF: [Click Here](#)
- TSSPDCL Official Website: [Click Here](#)