

GOVT. OF NCT OF DELHI
OFFICE OF THE ELECTRICAL INSPECTOR
5, SHAM NATH MARG, DELHI-110054

SYLLABUS FOR CERTIFICATE OF
COMPETENCY CLASS-II (ELECTRICIAN) EXAMINATION

(SEE CONDITION 17 OF THE CONDITIONS FOR THE GRANT OF CERTIFICATE OF COMPETENCY TO THE WORKMEN AND LICENSES TO THE ELECTRICAL CONTRACTOR FRAMED UNDER RULE 45 OF THE INDIAN ELECTRICITY RULES, 1956)

1. Electric Pressure (Volts)
2. Electric Current (Amperes)
3. Power (Watts)
4. Energy (Watt hours)
5. Ohm's Law
6. Difference between AC and DC supply
7. Conductors and Insulators
8. Use of Standard Wire Gauge
9. Connection of volt-meters and ammeters
10. Reading of energy meters
11. Simple calculations of power and energy
12. Testing the supply for off and on AC and DC
13. Positive and negative, live and dead conductors.
14. Various uses of the test lamp and bell.
15. Connections and diagrams for distribution and Fuse boards.
16. Cut-outs, ceiling roses, lamp holders, switches (including two way) and wiring on cleats, in wooden casing, metal sheathed, conduit.
17. The installation of electric bells and indicators.
18. Connections of AC and DC fans and regulators, common faults in them and their remedies.
19. Method of carrying (overhead) bare, lead covered and cab tyre sheathed wire over short distances.
20. Knowledge of danger points in simple lighting and power installations.
21. Testing for faults, measuring insulation resistance to earth by meggar.
22. Precautions and method of treatment in case of a person suffering from electric shock.
23. Making straight and tee joints in standard insulated wires.
24. Making britania and Eastern Union joints in bare copper wires.
25. Soldering lugs on wires and cables.