

SYLLABUS FOR SKILL DEVELOPMENT TRAINING ON

INSTALLATION AND MAINTENANCE OF ELECTRICAL AND ELECTRONICS SYSTEM

THEORY, DEMONSTRATION/TUTORIAL

- SIMPLE UNIT CONVERSION, MENSURATION & I. E RULES
- CODE OF PRACTICE AND SELECTION OF WIRES & FUSE
- DRAWINGS, LAYOUT AND SCHEMATIC, WIRING DIAGRAM, SYMBOLS & NOMENCLATURE
- CONNECTIONS AND DIAGRAMS FOR DISTRIBUTION AND FUSE BOARD
- CUT OUTS, CEILING ROSES, LAMP HOLDERS SWITCHES (INCLUDING TWO WAY), JOINT BOXES AND WIRING
- INSTALLATION OF ELECTRIC BELL, INDICATORS & ANNUNCIATORS
- HOUSE WIRING BY PVC CASING CAPING
- HOUSE WIRING BY PVC RIGID PIPE
- CONCEALED PVC PIPE AND CONDUIT WIRING BY M.S. RIGID PIPE
- CABLE JOINTS AND CABLE CONNECTION WITH SOCKETS
- ELECTRICAL EARTHING SYSTEMS AND RELATED I. E RULES
- PROTECTION OF BUILDINGS AND STRUCTURES FROM LIGHTNING
- STUDY OF SINGLE PHASE RCCB AND SELECTION OF MCB FOR DIFFERENT TYPES OF BOARD
- ESTIMATING, COSTING OF WIRING INSTALLATION FOR A RESIDENTIAL BUILDING
- METHOD OF LAYING WIRE OVER SHORT DISTANCES
- OVERHEAD AND UNDERGROUND LINE (AC) DISTRIBUTION
- BASIC IDEAS ON POWER STATION AND SUBSTATION
- ENERGY AUDIT
- STUDY OF ELECTRONIC COMPONENTS
- MAKING OF SIMPLE ELECTRONIC CIRCUIT
- BASICS OF ELEVATOR
- LAMPS AND CONTROL GEARS (INCLUDING HID LAMPS & LED LAMPS)
- FUNCTION, APPLICATION AND MAINTENANCE OF BATTERIES
- SOLAR ELECTRICITY, PV MODULE & CONTROLLER WITH INVERTER
- FINANCIAL ASSISTANCE FROM BANK

PRACTICAL:

- HOUSE WIRING BY PVC CASING CAPING INCLUDING TESTING AND COMMISSIONING
- HOUSE WIRING BY PVC RIGID PIPE INCLUDING TESTING AND COMMISSIONING
- INDUSTRIAL WIRING BY MS PIPE INCLUDING TESTING AND COMMISSIONING
- MEASUREMENT OF EARTH RESISTANCE BY EARTH TESTER
- COMMON FAULTS IN AC & DC FANS, REGULATORS AND REMEDIES
- TROUBLE SHOOTING OF OTHER HOUSEHOLD APPLIANCES (INDUCTION HEATER, ELECTRIC KETTLE, MIXER / GRINDER ETC.)
- MAINTENANCE OF DIFFERENT TYPES OF MOTOR WIRING
- ELECTRONIC CIRCUIT MAKING (LED DRIVER MAKING)
- MAINTENANCE OF TL, DIFFERENT CFL, LED LAMPS
- MAINTENANCE OF STREET LIGHTING AND FLOOD LIGHTING SYSTEM (USING SODIUM VAPOUR, METAL HALIDE AND LED LAMPS)
- MAINTENANCE OF STORAGE BATTERIES AND CONDITION OF CELLS
- MAINTENANCE OF ELEVATOR
- DEMONSTRATION OF SOLAR BASED SYSTEM AND MAINTENANCE TRAINING
- MAINTENANCE OF EMERGENCY LIGHTING SYSTEM (INCLUDING INVERTER & UPS)
- WIRING INSTALLATION AND MAINTENANCE OF PUMP MOTOR
- PRECAUTIONS FROM ELECTRIC SHOCK AND METHOD OF SHOCK TREATMENT

VISIT

- _CABLE JOINTING SITE
- POWER GENERATING STATION
- SUBSTATION
- LAMP FACTORY