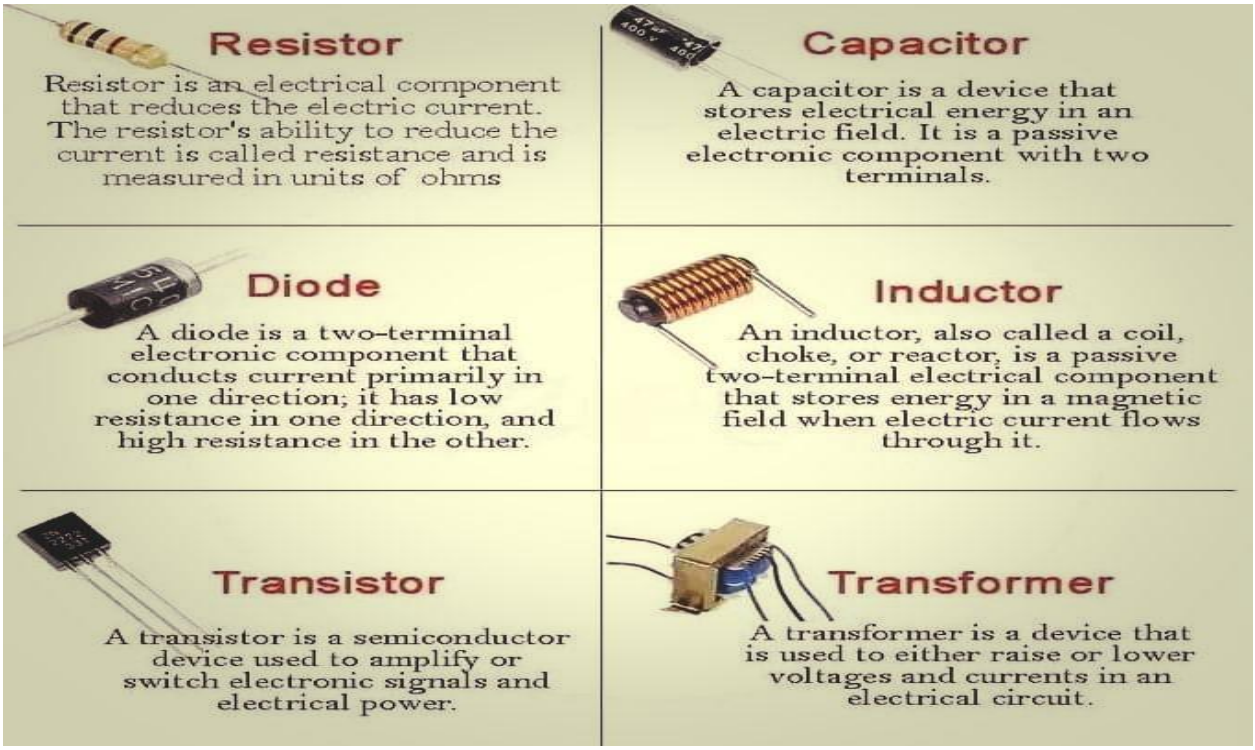
15-Day General Training Schedule (Diploma Students)

Modules Covered: Electronics + Solar Training
Approach: Theory + Practical + Hands-on + Assessment

Day 1 – Orientation & Safety

- Introduction to training program
- Lab safety & electrical safety
- Introduction to tools & equipment
- Overview of Electronics & Solar systems

Electronics Module (Day 2 – Day 8)



Day 2 – Basic Electronics Components

- Resistor, Capacitor, Diode
- Identification & working principles
- Practical component testing

Day 3 – Multimeter & Measurement

- Use of multimeter
- Voltage, current, resistance measurement
- Continuity testing

Day 4 – Soldering & PCB Assembly

- Soldering techniques
- PCB assembly practice
- Safety precautions

Day 5 – Power Supply & Basic Circuits

- AC/DC basics
- Simple circuit design
- Practical circuit building

Day 6 – Solar Street Light Assembly

- Components of solar street light
- Assembly & working
- Hands-on practice

Day 7 – Fault Finding & Troubleshooting

- Common faults in circuits

- Testing methods
- Repair techniques

Day 8 – Batteries & Report Work

- Types of batteries
- Charging & maintenance
- Report submission (Electronics Module)

Solar Module (Day 9 – Day 14)

Day 9 – Basics of Solar Energy

- Solar energy fundamentals
- PV systems overview

Day 10 – Solar Panel Types & Manufacturing

- Types of panels
- Working principles
- Basic manufacturing process

Day 11 – Battery, Controller & Inverter

- Solar battery systems
- Charge controller
- Inverter basics

Day 12 – Solar System Installation

- Practical installation
- Panel mounting
- System setup

Day 13 – Wiring & Safety

- Solar wiring techniques
- Safety practices
- Protection systems

Day 14 – Maintenance & Troubleshooting

- Fault detection
- Preventive maintenance
- Report submission (Solar Module)

Day 15 – Final Evaluation & Closing

- Written test (Electronics + Solar)
- Practical assessment
- Viva / Interview
- Feedback session
- Certificate distribution

Daily Time Schedule

Time	Activity
9:30 – 11:30	Theory Session
11:30 – 11:45	Break
11:45 – 01:30	Practical Session
01:30 – 02:15	Lunch
02:15 – 04:00	Hands-on / Project Work

Outcome of Training

Students will be able to:

- Identify and test electronic components
- Use measuring instruments
- Perform soldering and PCB work
- Assemble solar street lights
- Install and maintain solar systems
- Troubleshoot basic electrical and solar faults