



(An ISO 9001:2015 Certified Institute)

29/4 A, 2ND FLOOR, BEHIND TILAK NAGAR METRO GATE NO. 3,
TILAK NAGAR, NEW DELHI-18

MOBILE: +91-8929250332, +91-9716992246

EMAIL: info@multitechinstitute.com

Website: www.multitechinstitute.com

AC PCB Repairing Course

What will you learn in this course?

- ❖ Complete AC PCB Circuit Repair
- ❖ Inverter AC & Non-inverter AC PCB Repair
- ❖ Split & Window AC PCB repair
- ❖ Advance Level Training with advance tools
- ❖ Training with circuit diagram
- ❖ Data & Signal Level Check with DSO/CRO Machine
- ❖ All types of problem solution of AC PCB
- ❖ All types of companies' AC PCB repair (Samsung, Haier,
- ❖ How to repair software problem with BIOS Programmer?
- ❖ Latest Generation Inverter AC PCB Repairing Tricks
- ❖ Hidden Trick of Inverter AC & Non-inverter AC PCB Repair
- ❖ Signal, Data, Frequency & Clock Level Training
- ❖ Dead All types of AC PCB Repair
- ❖ Indoor & outdoor AC PCB Repair

SYLLABUS

❖ Basic Electronics

- Introduction of (Volt, current, Watt)
- Introduction of (AC/DC)
- How to Use Digital Multimeter

❖ Identification of Electronics Components

- Resistor, Capacitor, Transistor, Mosfet, Diode, Crystal, IC, Transformer, Fuse, Jumper, Thermistor, Switch, Coil etc.

✓ Resistor

- Denoting Letter of Resistor
- Identification & testing
- Color Coding Concept
- SMD Resistor Value
- Type of Resistor

✓ Capacitor

- Denoting Letter of Capacitor, what is Symbol
- What is capacitor
- Types of capacitor
- Capacitor Testing

✓ Diode

- Denoting Letter and Symbol of Diode
- Working concept of Diode
- Types of Diode?
- Bridge Rectifier Diode Concept
- Testing of Diode

✓ Transistor

- What is symbol and denoting letter of transistor
- Working concept of transistor
- Types of transistor
- SMD and normal transistor identification
- Testing of transistor

✓ Mosfet

- What is denoting letter and symbol of Mosfet
- Working concept of Mosfet
- Types of Mosfet
- Testing of Mosfet



✓ **Coil**

- What is denoting letter and symbol of coil.
- Looking concept of coil (Inductor)
- Types of coil
- Testing of all types coil

✓ **IC/chip**

- Identification of IC
- Working concept of IC
- Testing of IC on board

✓ **Transformer**

- What is Denoting letter and symbol of Transformer
- Working Concept of Transformer
- Types of Transformer
- Testing of Transformer

✓ **Crystal**

- What is symbol of crystal
- Working concept of symbol
- Testing of crystal

✓ **Fuse**

- What is symbol and denoting letter of Fuse
- Working concept of Fuse
- Testing of Fuse

✓ **Thermistor**

- What is denoting letter and symbol of Thermistor
- Working of varistor
- Types of Thermistor
- Testing of Thermistor

✓ **Varistor**

- Denoting letter and symbol of Varistor
- Working of Varistor
- Testing of Varistor

✓ **Battery**

- Working concept of Battery
- Testing of Battery

✓ **Switch**

- Jumper
- Connector
- Regulator IC
- Opto coupler
- Relay



❖ Main AC Electronics Components & Parts

- Compressor
- AC/DC Motor
- Contactor
- Relay
- Regulator IC
- TRIAC
- SSR- Solid State Relay
- Bio polar Liner IC
- 7 Segment LED Display
- Buck Converter IC
- IGBT- Insolated Gate Biopolar Transistor
- IPM- Intelligent/Inverter power Module
- PFCM- Power Factor Correction Module

❖ Soldering & De-soldering Practice

- How to remove & sold all types components in E-vehicle
Like as – Resistor, Capacitor, Diode, Transistor, mosfet etc.

❖ Basic of AC

- About Details of AC Type
- What is ton in AC System
- How to Calculate Best AC Ton for Room Size
- Details of Non Inverter AC
- Details of Inverter AC

❖ Types of AC

✓ Window AC

➤ Mechanical Section

1. Window AC Section details
2. Fan motor
3. Compressor
4. Capacitor
5. Swinger Blade
6. PCB Section

➤ PCB Section

- Power Supply (TFR (Linear) & SMPS)



- Regulation
- Relay Section
- Micro Controller
- Thermistor
- Power Relay
- Display / Keypad / IR / Indication
- Burzor Beep Sound

✓ Split AC

➤ Non-Inverter Section

- Indoor Unit
- Outdoor Unit
- Power / SMPS
- Regulation
- Relay
- Swinger Blade
- Power Relay
- Micro Controller
- BIOS / Crystal
- Display / Indication / Keypad / IR
- Outdoor Unit
- Connection
- Connector
- Outdoor Fan
- Compressor



➤ Inverter AC

- Split AC Indoor & Outdoor Details
- Power Supply
- Regulation
- DC Fan Motor
- Controller
- Crystal / BIOS /
- Bipolar Cleaner IC (details)
- Display / IR / Keypad / Indication
- Swinger Motor
- Thermistor (sensor)
- Communication Section



➤ Outdoor Section

- Power Supply
- Regulation
- PFC Section
- Micro Controller (BIOS / Crystal)
- Sensor

- Invertor Section
- Communication
- Compressor
- Fan Motor

❖ AC में कौन - कौन सा Problem आता है

- Cooling नहीं हो रहा है |
- बार - बार Trip कर रहा है |
- Air Flow कम आ रहा है |
- Swinger Blade काम नहीं कर रहा है |
- Temp. कम या ज्यादा नहीं हो रहा है |
- बार - बार Gas Leakage Problem होता है |
- Coil को Coating कैसे करें |
- AC ON नहीं हो रहा है |
- Cooling Coil पर बर्फ क्यों जमता है |
- Remote कार्य नहीं कर रहा है |
- Error Code क्यों आता है |
- Error code को Read कैसे करे
- Error code की Problem Solve कैसे करे |



CALL FOR FREE DEMO: 8929250332

Follow us on:  
@MultitechInstitute
@Rajkumarkushwaha

Multitech Institute App

DOWNLOAD FROM



Our Repairing Courses

MOBILE | LAPTOP | CCTV | LED TV | PRINTER

MOBILE EMMC | E-RICKSHAW CONTROLLER & CHARGER