



INTERSOFT

TECHNICAL INSTITUTE

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LAPTOP REPAIR TRAINING COURSE MATERIAL

COMPUTER CHIP LEVEL TRAINING:

MODULES	COURSES	REGULAR 1.5 HRS	FAST 3 HRS	FULL DAY 6 HRS
MODULE C1	COMPUTER SERVICE TRAINING (CARD LEVEL SERVICES)	1 Month	15 Days	4 Days
MODULE E1	BASIC ELECTRONICS	15 Days	7 Days	2 Days
MODULE C2	SMPS, LCD REPAIRING (CHIP LEVEL TRAINING)	15 Days	8 Days	2 Days
MODULE C3	COMPUTER BOARD REPAIRING (CHIP LEVEL TRAINING)	1 Month	15 Days	4 Days

LAPTOP CHIP LEVEL TRAINING:

MODULES	COURSES	REGULAR 1.5 HRS	FAST 3 HRS	FULL DAY 6 HRS
MODULE L1	LAPTOP BASIC SERVICE (CARD LEVEL SERVICES)	15 Days	6 Days	1 Days
MODULE L2	ADPTER BATTERY LCD	15 Days	10 Days	1 Days

	INVERTER			
MODULE L3	SMPS, LCD REPAIRING (CHIP LEVEL TRAINING)	1.5 Month	1 Days	4 Days
MODULE L4	COMPUTER BOARD REPAIRING (CHIP LEVEL TRAINING)	-	-	5 Days
MODULE L5	SERVICE CENTER TRAINING (WORKING EXPERIENCE)			

Terms & Condition:-

- ⇒ **Registration Fees 1000/- Extra On Any Course**
- ⇒ **Reserve Seat before class and take online class**
- ⇒ **Course content, Fees & chapter may be change without prior notice**

MODULE C1

COMPUTER BASIC HARDWARE (for freshers)

Note :- (IF CANDIDATE HAS A KNOWLEDGE OF COMPUTER BASIC HARDWARE HE CAN DIRECTLY GO TO MODULE- L1)

1. Basics Of Electronics, 2. Fundamentals Of Computer, 3. Computer Assemble & Parts Identify, 4. SmPS, 5. Motherboard & Cpu, 6. Hard Disk & Cd/Dvd, 7. Monitor /Lcd /Led, 8. Ram, 9. Printer Basic Ideas, 10. Types Of Cards , 11. Basic Operating System, 12. Installing Os and drive

MODULE E1

BASIC SMD ELECTRONICS

- AC, DC, electronics, electrical, current, voltage, watt, ampear, types of circuit, measure unit
- Types of Material, working detail of circuit, component types
- Resistor, types, used, SMT, measure
- **Capacitor:** - work, types, ceramic, electrolyte
- **Induction /coil:-** work, types, check
- **Transformer:-**work, types, step-up, step-down, smd, check
- **Diode :-** semiconductor, n-type, p-type, work, types, testing

- **Transistor:-**work, types, npn, pnp, testing method, used
- **FET, Mosfet :-** work, types, npn, pnp, testing, single channel, dual channel, testing, used
- Other Component Fuse, Crystal, Etc
- **Digital electronics:-** Number systems types, Conversion of Number systems
- **Types of logic Gate :-** AND, OR NOT NOR, NAND
- Study chip datasheet and working idea of different chip thru gates
- Soldering , Removing, cold Testing, warm testing, onboard testing, Procedure of component

MODULE C3

COMPUTER DEKSTOP BOARD REPAIRING TRAINING CONCEPT

NOTE :- (before going to laptop motherboards repairing candidate should have knowledge of desktop Motherboards first then only he can understand laptop motherboard easily)

MODULE 3.1 : WORKING FUNCTION OF DIFFERENT CHIP AND MAIN SIGNAL TRACING

MODULE 3.2: MOTHERBOARD FAULT FINDING

MODULE 3.3: BGA REPAIRING AND REBALLING

MODULE L1

LAPTOP BASIC SERVICE TRAINING

Intro, Laptop, Difference, Advantage, Uses, Safety, Tools Required for Servicing Laptop. Identify Parts of Laptop, Dismantle & Assemble and Laptop with Parts Identify, Formatting & Installation of Operating Systems & Drivers on Laptop

MODULE L2

ADAPTER, BATTERY, LCD, INVERTER, ETC REPAIRING CONCEPT

ADAPTER REPAIRING CONCEPTS, BATTERY REPAIRING CONCEPTS, LCD /TFT/LED CCFL / LCD TUBE CONCEPTS, INVERTER REPAIRING CONCEPTS, RAM, KEYBOARD/ TOUCHPAD, HARD DISK,

MODULE L3

LAPTOP MOTHERBOARD CHIP LEVEL TRAINING

MODULE L3.1

LAPTOP WORKING DETAIL

- Chp 1. Introduction To Laptop Board
- Chp 2. Block Diagram Of Board , Chip Identify
- Chp 3. Basic Working Detail Of Boards
- Chp 4. Mosfets And Its Used, Switching, And Regulator
- Chp 5. Power On Stage Primary, Second, Vrm

MODULE L3.2

SCHEMATIC DIAGRAM TRACING

- Chp 6. Laptop Schematic Diagram, Types Odm
- Chp 7. Power Supply Chips Detail And Understand Signals
- Chp 8. Clock Generator, Cpu Section
- Chp 9. North Bridge And Graphic Chip Connection
- Chp 6. Laptop Schematic Diagram, Types Odm
- Chp 7. Power Supply Chips Detail And Understand Signals
- Chp 8. Clock Generator, Cpu Section
- Chp 9. North Bridge And Graphic Chip Connection
- Hp 10. South Bridge, Lan , Audio, Hdd, Cdd, Card Reader
- Chp 11. I/o Controller Keyboard, Touchpad, Camera, Power Controller
- Chp 12. Pch (Platform Controller Hub) North+ South
- Chp 13. Tracing Board With Schematic Signals
- Chp 14. Charging And Primary Voltage
- Chp 15. Secondary Voltage Output Signals (Sus, Main (2.5v,1.5v) S0/ S3)
- Chp 16. Vrm Section & Pci Reset Signals

Chp 17. Tracing Of Different Laptop Board Power Stages

MODULE L3.3

FAULT FINDING STEPS

Chp 18. How To Use Crobasic Concepts, Testing With Cro& Multimeter(Stepwise)

Chp 19. Testing Tools , Debug Card, Slot Tester

Chp 20. Bios Update, Reset

Chp 21. Washing, Cleaning, Drying & Dry Solder Problem Solution Of Motherboard

Chp 22. Testing Laptop Power Consumption Thru Power Supply Unit

Chp 23. Fault Finding Laptop Power Section

Chp 24. Fault Finding Laptop Connection

Chp 25. Flow Charts For Fault Finding Steps

Chp 26. Discussion Student Problems And Solution

MODULE L3.4

BGA CHIP REPLACEMENT AND REBOLLING

Chp 27. Removing And Inserting Different Chips Practice (Video & Step)

Chp 28. Use Of Bga Machine, Temperature Setting

Chp 29. Bga Reboll , Rework Practice

Chp 30. Demo For Other Product

MODULE L4

ADVANCE ENGINEERING LEVEL LAPTOP CHIP LEVEL TRAINING

MODULE L4.1

ENGINEERING LEVEL ADV. LAPTOP MOTHERBOARD REPAIR TRAINING

Chp 1. Revision Of Laptop Module 2 Concept Of Power On Sequence, Vrm , Bios:

Chp 2. Understanding Different Models & (Odm) Original Device Manufacture Of Schematic Diagram

Chp 3. Understanding Board View Of Laptop

Chp 4. Understanding Important Signals Of Laptop Motherboards:

Chp 5. Understanding Different Section In Depth And How It's Enable:

Chp 6. Practical Training With Tracing Different Laptop Board For More Confidence In Laptop Motherboard Repairing:

Chp 7. Some Of Common Fault Of Laptop

MODULE L4.2

HIGH END INSTRUMENT PRACTICE

Chp 8. Types Of Laptop Password, Bios Password, Admin Password, User Password, Hard Disk Password , Password Reset Concept

Chp 9. How To Flash Bios Of Laptop Chip Online And Offline

Chp 10. Uses Of Different Repairing & Testing Instrument

MODULE L4.3

REPAIRING CONCEPT WITH DIFFERENT LAPTOP FOR PRACTICE

Chp 11. Laptop Common Fault List & Repairing Steps Concept

Chp 12. Removing And Inserting Bga Chips Practice On High End Machine

Chp 13. Working With Student / Service Centre Laptop Repairing (Limited)

Chp 14. Requirement For A Laptop Service Centre List