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COMPUTER REPAIR TRAINING COURSE MATERIAL

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

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)

- 1 Basics Of Electronics (AC,dc, volt ampear, multemeter used, measurement)
- 2 Fundamentals Of Computer (Defination, generation, classification, anatomy, input, output)
- 3 Computer Assemble & Parts Identify (smps, cabinet, board, storage, cpu, board)
- 4 Smps (types, pindetail, 12v, 5v, 3.3v pson, pgood, standby)
- 5 Motherboard & Cpu (types, block diagram, chip identify, north, south, io, lan, vga, agp etc)
- 6 Hard Disk & Cd/Dvd (SATA, PATA, size type, internal parts, spindle, motor, head, vcm)
- 7 Monitor /Lcd /Led (working idea of lcd, basic problems of lcd, moniter)
- 8 Ram: (types of RAM, DDR1, DDR2, DDR3, DDR4, different volt)
- 9 Printer Basic Ideas: (Types, DMP, LASER, INKJET, ALLINONE, changing cartrage)
- 10 Types Of Cards (agp, graphics, lan, vga, usb)
- 11 Basic Operating System: (types, single, multi user, booting process, bios setting,)
- 12 Installing Os & Drivers (format, windows installation, driver installation)
- 13 Windows Operating Systems (basic used, device manager, control panel, dos cmd, config)
- 14 Virus, Antivirus, Internet, Settings (antivirus software, internet connection, use of internet)
- 15 Troubleshooting Of Computers (msconfig, repair, NTLR missing, file missing)
- 16 Basic Networking Concept: (types of network ,cabling, cripting, ip address, subnetting, sharting files, printer)

MODULE E1:

BASIC ELECTRONICS ANALOG, DIGITAL, PRACTICE

- 1. AC, DC, Electronics, (Electrical, Current, Voltage, Watt, Ampere, Types Of Circuit, Measure.)
- 2. Types of Material, Working Detail of Circuit, Different Components.
- 3. Resistor: Types, Uses, SMD, Measure, Value.

- **4.** Capacitor: Work, Types, Ceramic, Electrolyte, Tentalium
- **5.** Induction / Coil: Work, Types, Check.
- **6.** Transformer: Work, Types, Step Up, Step Down, SMD, Checks.
- 7. Diode: Semiconductor, N Type, P Type, Work, Types, Testing.
- **8.** Transistor: Work, Types, NPN, PNP, Testing Method, Uses.
- 9. FET, MOSFET: Work, Types, NPN, PNP, Testing, Single Channel, Dual Channel, Testing, Uses.
- 10. Other Components: Fuse, Crystal, RTC.
- **11.** Digital Electronics, Types of Number Systems, Conversion.
- 12. Types Of Logic Gate: AND, OR NOT NOR, NAND, Flip Flop, Exclusive.
- 13. Study of Different Chip Datasheet with Different Gates and Working Idea of Different Chips.
- 14. Soldering, Removing, Cold Testing, Warm Testing, Procedure of Components.
- **15.** Project on Electronics, practical Idea of Using Different Components. Resistor, Capacitor Diode Transistor, MOSET, Fuse, Coil, Led, Switch etc.
- **16.** Soldering and Desoldering Practice

MODULE C2:

SMPS, LCD, LED REPAIRING CONCEPT

- 1. SMPS repairing
- 2. Lcd, inverter repairing concept
- 3. Hard disk basic troubleshooting
- 4. Ram basic service
- 5. Dvd rom Basic service

MODULE C3:

COMPUTER DEKSTOP BOARD REPAIRING TRAINING CONCEPT

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

- 1. Basic computer & Block diagrams of computer motherboards, frame structure
- 2. Basic working detail of computer motherboards, power on signals
- 3. SMPS basic working and different volt, pson, pgood, sus, 12v, 5v, 3.3v vrm
- 4. MOSFETS & coil used, switching and linear output
- 5. Testing & understand vrm section offline and online with multimeter & cro
- 6. Understand Power on sequence of computer motherboard (K8V-MX)
- 7. Clock generator chip, Clock crystal, different frequency, voltage x1, x2,
- 8. Types of CPU socket and CPU, main signals of CPU(vid, vcccore, shdn, vron)
 - **a.** VRM section detail with different phase for CPU
- 9. Northbridge working concept, main signals, different power
 - a. RAM, Types, main signals, linear output, voltage,
 - b. VGA display connector
 - c. AGP slot

- d. Graphic chip
- 10. South bridge working concept, main signals, different power
 - a. Hard disk, CD ROM connection, important signals
 - b. fdd connector
 - c. USB connector
 - d. sata connector
 - e. pci slot
 - f. bios chip, main pins detail, identify, cmos battery
 - g. RTC, clock crystal,
 - h. PCI / ISA details pin out, important signals detail
- 11. LAN and audio chip, main signals, connection with socket
- 12. I/O controller working concept, main signals, different power
 - a. Com port
 - b. Ps2 connection
 - c. Printer port connection
 - d. Cpu temperature
 - e. Power controller, on/off, vrmon, etc
 - f. fan controller
- 13. PCI express /mini pci AGP slot, Testing signals on pci agp slots

⇒ MODULE 3.2: MOTHERBOARD FAULT FINDING

- 14. Common fault chart and solution steps of computer motherboard
- 15. Repairing steps of motherboard identify problems
- 16. Debug card details, use of Debug card ,common error code
- 17. Testing with multimeter, CRO different signals of motherboard
 - * pson, power good, 12v, 5v, 3.3v, 2.5v 1.5v 1.8v, 5vsus, reset signals, vid signals, rtc crystal, cmos battery, clock crystal, address, data buses, bios chip,
- 18. Slot tester and use details, cpu, ram, pci, agp
- 19. Reset signals detail, testing reset signals
- 20. Bios update

⇒ MODULE 3.3: BGA REPAIRING AND REBALLING

- 21. Washing, Cleaning, drying, Dry solder problem solution of motherboard
- 22. Introduction to BGA machines, used, temperature setting,
- 23. ICs rebelling, BGA ball arrangement, practice., Using BGA machine
- 24. Removing and inserting different chips practice (video & step)
- 25. Removing & replacing sockets, CPU, RAM, PS2, COM ETC
- 26. DEMO FOR OTHER PRODUCTS AVAILABLE

CONTACT

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