

Desktop & Laptop Chip Level Repairing

ADCH (Advance Diploma in Computer Hardware)

Duration: 6 Months

Fees: ` 15000/-

Free:- Toolkit, Notes, Notebook, Pen, ID, Software CD.

Syllabus:

Module 1: Hardware Concept

1. Introduction to Computer Hardware, Block Diagram Details, Parts of Computer
2. **Keyboard & Mouse:** Types, Identification
3. **Motherboard:** Block Diagram, Types, Identification
4. **Motherboard Parts:** Identification of Ports, Chip, Slot, Connector, Section etc.
5. **CPU:** CPU Socket Details, Types of CPU, Identification.
6. **RAM:** Types of RAM, Identification, Operating Voltage.
7. **SMPS:** SMPS Pin Details, SMPS Voltage, How To Check SMPS, How to use multimeter, How to Check Power Cable.
8. **Hard Disk:** Types of Hard Disk, Identification of Hard Disk, Jumper Setting.
9. **CD/DVD Drive:** Types of CD/DVD Drive, Identification of CD/DVD Drive, Jumper Setting.
10. **UPS:** Types of UPS, Identification of UPS, Testing of UPS, Battery Concept.
11. **Monitor:** Types of Monitor, Identification of Monitor.
12. Computer Assembling/Disassembling
13. How to Build New Computer, 14. How to Upgrade Your Computer

Module 2: Software Concept

1. Introduction to Windows, Identification of Windows
2. How to Install Any Operating System (win 7, 8, 10) Without Data Lost
3. Dual Booting and Multi Booting
4. Driver Installation (Offline/ Online)
5. How to Use BIOS Setting
6. How to Use Windows Backup & Restore.
7. How to Manage Hard Disk Partition.
8. How to Install Application Software
9. Windows Shortcut Key & Command
10. Control Panel Setting, * How to Break Password *
11. How to Install Antivirus Software.
12. How to Do Data Recovery From Hard Disk, Pen Drive, Memory Card & Other Storage Device.
13. How to Make Bootable Pen Drive for Windows Installation.



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Module 3: Basic Electronics

1. What is Current?
2. What is Voltage?
3. About AC and DC.
4. Resistor
5. Capacitor
6. Coil
7. Diode
8. Mosfet
9. Transistor
10. Transformer
11. Crystal
12. Function of IC



Module 4: Soldering and Desoldering

1. How to Remove Components From Motherboard.
2. How to Fix Componenets on Motherboard.
3. How to Change Port and Slot of Motherboard.
4. How to Remove and Fix all Ic's from Motherboard.

Module 5: Tracing (with power supply & without power supply)

1. VRM Section
2. Ram Section
3. Chipset Section
4. Clock Section
5. Fan Section
6. USB Section
7. Audio Section
8. LAN Section
9. BIOS Section
10. I/O Section
11. SATA Section



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Module 6: How to Solve Problem

1. No Display Problem
2. Dead Problem
3. Hanging Problem
4. Slow working Problem
5. Restart Problem
6. Charging Problem
7. USB Problem
8. WiFi Problem
9. Sound Problem
10. Bluetooth Problem
11. Hard Disk Problem
12. CD/DVD Drive Problem
13. RAM Problem
14. Software Related Problem



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