



NetTech India



Advance Certification Course in **LAPTOP CHIP LEVEL TRAINING**

Address :- 203, Ratnamani Building, Dada Patil
Wadi, Opp ICICI ATM, Near Platform No.1,
Thane West, Maharashtra 400601

☎ 098708 03004 / 5 ✉ info@nettechindia.com

Address :- 187/A , 1st Floor, Sukhmani Building,
S V Road, Opp Nadko Shopping Centre, Above
Top 10 Mobile Shop, **Andheri West** - 400058

☎ 7304639164 / 5 ✉ info@nettechindia.com

CERTIFICATIONS OPTIONS AVAILABLE



NetTech India



ABOUT US

NetTech India Training Institute offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in **NetTech India**. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.



25%
Theory

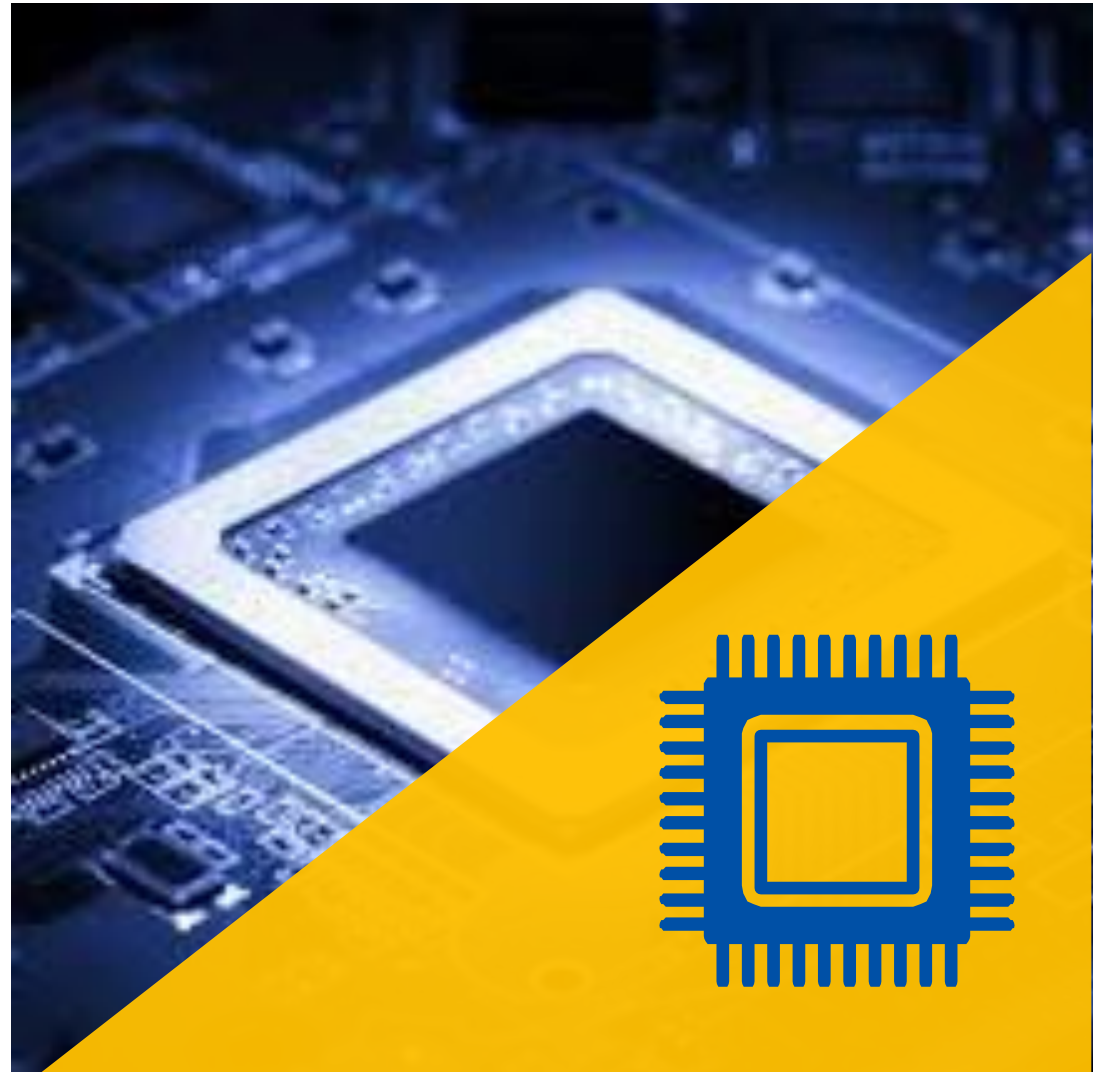


75%
Practicals

ABOUT

LAPTOP CHIP LEVEL **TRAINING**

Every technology comes with its pros and cons. So, just like you need a specialist when you are ill, our laptops, desktops require a mechanic who not only repairs our laptops but also troubleshoots all the technical concerns. The chip level training course is a fully comprehensive course that helps you to learn about the repairing techniques that you need. Our course focuses on different chip level repairing aspects.



BENEFITS OF

LAPTOP CHIP LEVEL

TRAINING

- Career Growth - Higher Pay & Position
- Encourages professional Development
- Enriches self-image and Reputation
- Enhances professional Credibility.
- Abundant Job Opportunities
- Used In Many Industries
- Global Recognition
- Secure and Flexible
- 50+ Case Studies
- 50+ Projects



COURSE CONTENT

Chip level with BGA Technology

Module 1: Basic Electronics.

- 1. Basic Electronics Concept, Formation of Current, AC/DC Concept, Rules for Flow of Current.
- 2. Resistor- Symbol, Function, Function, Denoting Letter, Solid Type Resistor Color Coding,
- SMD Type Resistor Coding, Value measurement by Multimeter and SMD Tester.
- 3. Capacitor – Function, Types, Symbol, Identification of Solid Type and SMD Type Capacitor,
- Testing of Capacitor by Multimeter and SMD Tester, Value measurement by SMD Tester.
- 4. Coil – Function, Symbol, Denoting Letter, Types of material, Properties of Coil, Identification of Solid and SMD type coil, Pack coil, Testing of Coil.

- 5.Diode: Function, Symbol, Denoting letter, Identification of Solid and SMD Type Diode, Types of Diode, Testing of Diode, Anode, and Cathode Concept.
- 6.Transistor: Introduction, Types, Symbol, Denoting Letter, PNP and NPN Concept, Testing of Transistor, Function, etc.
- 7.Mosfet: Introduction, Types, 3 leg Mosfet, 8 Leg Mosfet, Identification of N-Channel and PChannel Mosfet, Testing of Mosfet, Dual Mosfet Concept, Switching Concept Etc.
- 8.Crystal: Introduction, Concept of Quartz, Clock and Pulse, Measuring unit, Types and Real Shape, Testing of Crystal, etc.
- 9.Transformer and IC.

Module 2: Chip level Practice with Testing & Repairing Tools.

- Use of Soldering Iron, Micro Soldering Iron, Desoldering Pump, File, Twister, SMD Machine, and Hot Melt Gun, All types of IC and Chip soldering/Desoldering, All types of Electronic Component Solid and SMD soldering /Desoldering.

Module 3: Chip Level Circuit Tracing and Repairing of Motherboard.

1. Motherboard overview and Block Diagram of Motherboard.
2. Identification of all types of chips, ports, sockets, slots, etc.
3. Working Concept of Motherboard. Concept of RESET, READY, CLOCK Signal.
4. VRM Circuit- Overview, Tracing, Hot Testing, Shorting Problem in VRM Circuit, Troubleshooting, Internal Structure of VRM Chip, Volt Sense Circuit Concept, Programmable circuit, VID Concept.
5. RAM Supply: Identification of all Types of Desktop RAM, RAM Operating Voltage, RAM Supply Pin, All types of a possible circuit of RAM Supply. Hot Testing.
6. Clock Generator Circuit: Identification of Clock Generator, Tracing, Use of Frequency Counter to measure Clock, Troubleshooting
7. USB Port Circuit: USB Port Supply Pin Tracing, Data Pin Tracing.
8. Sound Circuit: Tracing, Supply Circuit of Sound Chip.
9. PS 2 Port Circuit: Pin Details of PS 2 Port, Supply Circuit, DATA and CLOCK Circuit.
10. SATA Port : Data Pin Tracing of Sata Port.

11. Sound Circuit – Tracing, Supply, Troubleshooting.
12. Standby Circuit: StandbyMosfet, Circuit tracing.
13. PCI Slot: Voltage, Data, and Signal Testing.
14. Diagnostic Card: LED Status, Coding Concept
- 15.CRO Machine: Complete Operating of CRO for Voltage, Data, and Signal Testing.
- 16.ROM Circuit: Identification of all Types of ROM, ROM Pin Details, and Circuit Tracing.
17. ROM data and RAM Data: Data Testing on ROM and RAM Data Pin.
18. South Bride Supply Circuit.
19. Repairing of RAM.
20. PS ON and Trigger Circuit.
21. BIOS Programming by Mini and Universal BIOS Programmer.
22. How to Check CPU Socket by CPU Socket Tester.

Module 4: Chip Level Laptop Hardware Concept

1. Assembling and Disassembling of Laptop.
2. Identification of all parts of the Laptop.
3. Identification and Function of all Ports and Socket of Laptop.

Module 5: Chip level Circuit Tracing and Repairing of Laptop.

1. Volt in Circuit. Tracing and Troubleshooting.
2. VRM Circuit. Tracing and Troubleshooting.
3. Ram Supply Circuit. Tracing and Troubleshooting.
4. Step Down Circuit – 5 Volt and 3.3 Volt. Primary and Secondary Step down.
5. Battery Charging and Discharging Circuit. Tracing and Fault Finding.
6. Clock Generator Circuit.
7. Fan Controller Circuit.
8. USB Supply and Data Circuit.
9. SATA Supply and Data Circuit.
10. LAN
11. AUDIO – Mike, Headphone and Internal Speaker Circuit Tracing.
12. CPU Thermal Circuit.
13. ROM – Identification of all types of ROM and Circuit Tracing.

- 14. Schematic Diagram – Laptop Motherboard Circuit Tracing through Schematic Diagram.
- 15. North Bridge Supply
- 16. South Bridge Supply
- 17. Graphics Chip Supply
- 18. Concept of PCH.
- 19. Laptop BIOS Programming.
- 20. BGA Machine Operation, Chip Rebelling.
- 21. How to Download BIOS File from the Internet.
- 22. Password Removal Tips.
- 23. VGA Port.
- 24. Input Output Controller chip Connection Circuit,
- 25. Use of DC Supply Machine.
- 26. Laptop Display Assembly.
- 27. Concept of RESET.
- 28. Identification of all chips of laptop motherboard.
- 29. Common Faults of Laptop and Troubleshooting.

And Many More...

WHO CAN LEARN ?

- Anyone who wants to build a career Chip Level Repairing
- Anyone who wishes to gain knowledge about Chip Level
- Students who are currently in college or university
- Any Professional & Business Personas



CAREER OPPORTUNITIES

- Chip Level Repairing Engineer
- Industrial PCB Repair Engine
- Service Engineer
- Support Engineer
- Repair Engineer
- System Administrator
- IT Administrator

And Many More...



OUR RECRUITERS



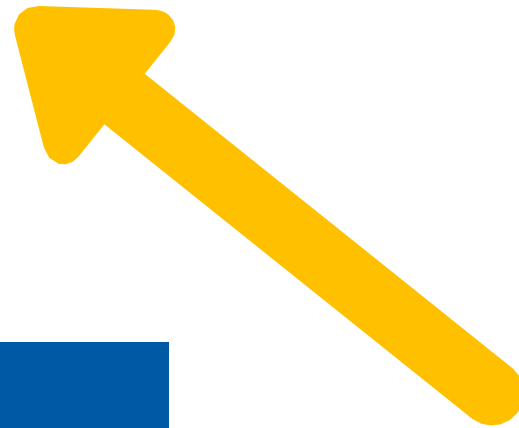
and Many More....

PROCESS FOR SUCCESS

GET PLACED

GET TRAINED

ENROLL



FACILITIES OFFERED

- Practical Training on Live Projects
- 100% Placement Guarantee
- Interview Preparation
- Global Certification
- Fully Functional Labs
- Online / Offline Training
- Study Materials
- Expert Level Industry Recognized Training





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