



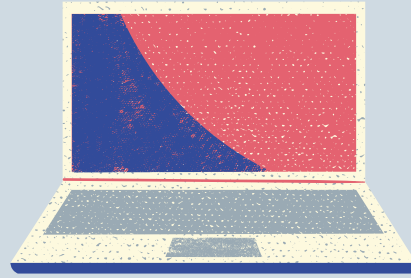
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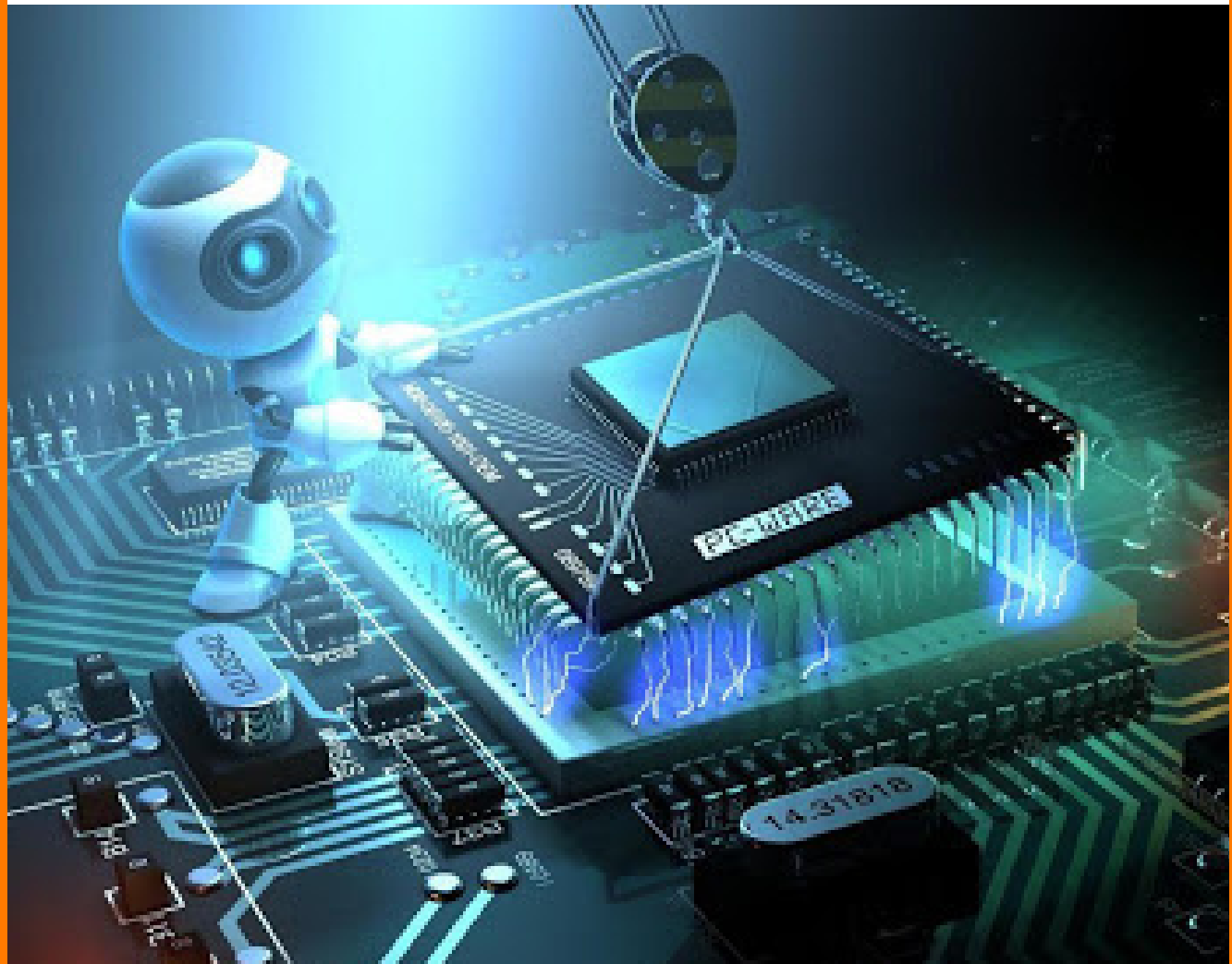
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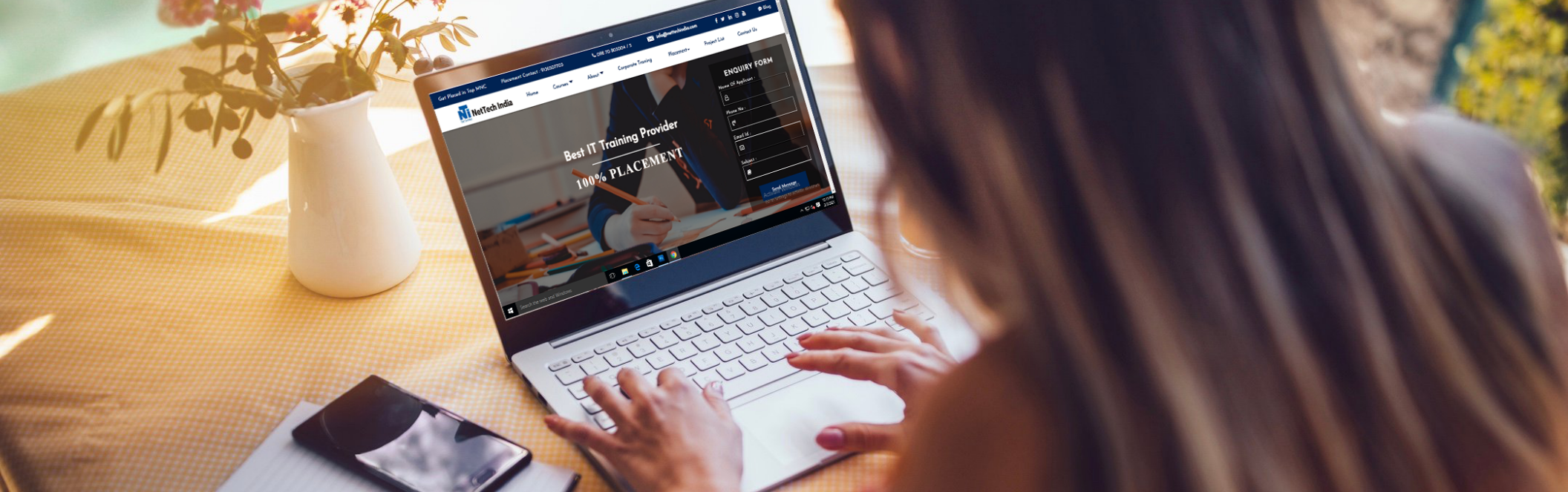


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# ADVANCED CHIP LEVEL TRAINING





# 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. NetTech India team consists of highly qualified experts whom you can trust.

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# ABOUT ADVANCED CHIP LEVEL TRAINING

The NetTech India's laptop repairing course covers everything from basic electronics to advanced testing and repairing tools. Laptop in today's techno-savvy world plays a vital role and maintaining and repairing faults in the laptop is a big challenge for all of us today, but this laptop chip-level training validates the skills for repairing the servicing the laptops.



# BENEFITS OF ADVANCED 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
- ➔ 10+ Projects



# COURSE CONTENT

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## **Advanced Chip level repairing with BGA Technology**

**Module 1: Computer Hardware Concept.**

**Module 2: Partition/Formatting and Windows Installation.**

**Module 3: Windows Settings and Security.**

**Module 4: Software and Utilities.**

**Module 5: Workgroup Networking & Internet Concept.**

**Module 6: 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 7: 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 8: 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,
- 5. Internal Structure of VRM Chip, Volt Sense Circuit Concept, Programmable circuit, VID Concept.
- 6. 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.
- 7. Clock Generator Circuit: Identification of Clock Generator, Tracing, Use of Frequency Counter to measure Clock, Troubleshooting
- 8. USB Port Circuit: USB Port Supply Pin Tracing, Data Pin Tracing
- 9. Sound Circuit: Tracing, Supply Circuit of Sound Chip
- 10. PS 2 Port Circuit: Pin Details of PS 2 Port, Supply Circuit, DATA, and CLOCK Circuit.

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



## **Module 9: 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 10: 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. HDMI
- 11. LAN
- 12. AUDIO – Mike, Headphone and Internal Speaker Circuit Tracing

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

**And Many More...**

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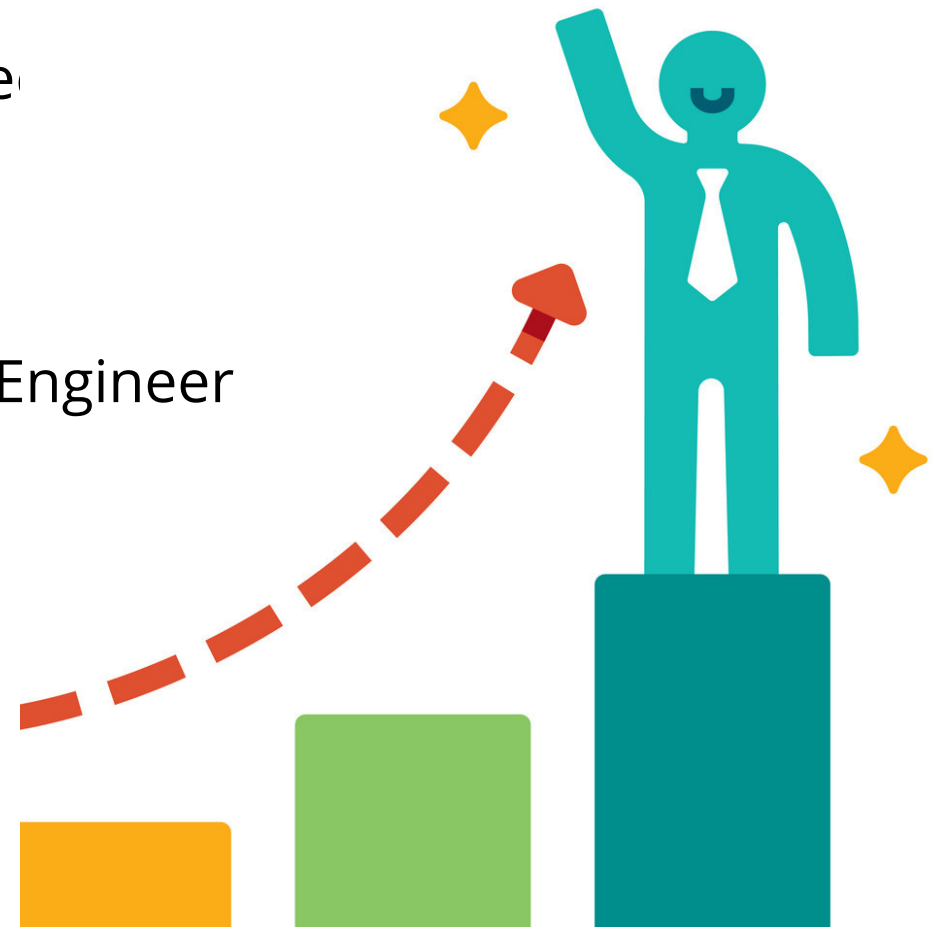
# WHO CAN LEARN ?

- 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 Engineer
- Service Engineer
- Laptop & Desktop Support Engineer
- Laptop Repair Engineer
- Desktop administrator
- Desktop administrator

**And Many More...**

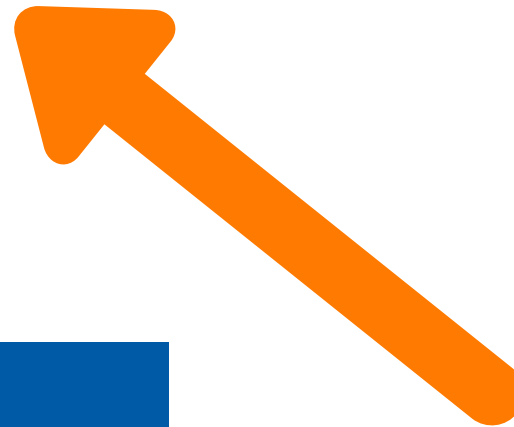


# PROCESS FOR **SUCCESS**

**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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