



# SIMPLIFYING TECHNOLOGY

# Cryptch

*Making you ready  
for the Technology  
Driven World.*

- HARDWARE • NETWORKING • ETHICAL HACKING
  - CCNA & CCNP • CLOUD • IOT

**Visit us at [www.cryptch.tech](http://www.cryptch.tech)**

# Office & Contact details



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[www.cryptch.tech](http://www.cryptch.tech)



# Our Aim

"WE SEE YOUR SUCCESS AS OUR SUCCESS."

With professional trainers and Practical based learning we focus on present & shoot for the future.

Making you ready for future technology & challenges waiting in your path of Success.

The need of 21st Century are Skilled People, Play your part in Development of our Nation, become a Certified IT Professional, today.

The future is waiting for you make a move now, get ready for the future. Don't wait for others, find your own way & create your own Destiny.

Join Cryptch & kick-start your career in IT industry.



# *A word from our Founder & CEO*

In 21st Century, technology is everywhere.

People like you and me- are making it, maintaining it & upgrading it for our day to day usage.

*"Technology is much less frustrating when you understand it."*

We aim to provide, 'Quality' & 'Updated' education to everyone at an Affordable rate and make technology easier to understand.

## Mr. Anand Sharma

- 11+ YEARS OF EXPERIENCE IN IT INDUSTRY
- COMPTIA N+
- CISCO CERTIFIED NETWORK ASSOCIATE
- CISCO CERTIFIED NETWORK PROFESSIONAL
- RED HAT CERTIFIED SYSTEM ADMINISTRATOR
- MICROSOFT CERTIFIED PROFESSIONAL
- CERTIFIED ETHICAL HACKER
- MANAGED MULTIPLE AMC'S



At Cryptch, our focus is to guide students to a better future and make them self-reliant so that, they can become whatever they dream of. It may be An Entrepreneur or to reach their dream Job.

It's clear, those who have tech skills are much more adaptable to learning.

Thank you for choosing us. I hope you have a happy journey ahead in technical field. Wishing you all a lot of success ahead.

# Why Cryptch

01

## IT Experience

Teaching is not new to us. We have Experienced & Certified Trainers. They make technology - easy to understand.



## Education Quality

We offer Robust Educational model & latest course-ware at affordable price. P.S. Without compromising with quality.

03



## Upskill

05

Even if you have a few skills; you can always up-skill yourself .



CONTACT US



02

## Talent acquisition

"A diamond's worth can only be identified by a Jeweler." We are dedicated to find the hidden potential.



04

## Certification

We act as gateway between you and Global Certifications.



06

## Focus

We aim to provide Focused and Practical Education.



Still have Doubts?  
Contact us



EVEN  
PANDEMIC  
COULDN'T  
STOP US

# We also provide Services



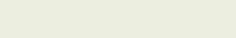
## 02 HARDWARE UPGRADATION

Without any worries get the best hardware for your computer at cheap price.



## 04 TROUBLESHOOTING

One of essential service in Computer field. Our engineers will make sure that any issue never troubles you again.



## 01 ANNUAL MAINTENANCE CONTRACT

Find instant and cheap solutions to computer emergencies like hard drive crashes, viruses, monitor on the blink, power fluctuations, and lots more.

## 03 NETWORKING

We do all level of networking may it be routing, switching or just structured cabling.



## 05 AUTOMATION

We also provide automation solution To minimize the work load.



We aim to provide the best in class services in affordable rates, without compromising with quality.

Leave all your computer problems to us without any worries.

Last but not the least, some details about

# OUR ANNUAL MAINTENANCE CONTRACT

Annual Maintenance Contract or AMC provides security for all IT services and computer equipment like a printer, desktop, etc. AMC is an agreement between a firm, who provide maintenance and a consumer who has purchased a service.

## 01 Save money

Save money & make budgeting easier. Pay once and get Unlimited service

## 03 Services

We focus of providing  
• uninterrupted service including Hardware and Software.

## 05 Emergency

We are always there to help you and provide emergency support.

## 07 No worries

We've got you covered . Focus on what is important to you and your team.



## 02 EXPERT SERVICE

You get expert and professional technicians without spending lots of money.



## 04 INCREASE UPTIME

Focus on Other Things and Leave Maintenance to the Pros.



## 06 REPORTS

Get Quarterly report & improve productivity.







Cryptch



# CHIP - LEVEL HARDWARE COURSE

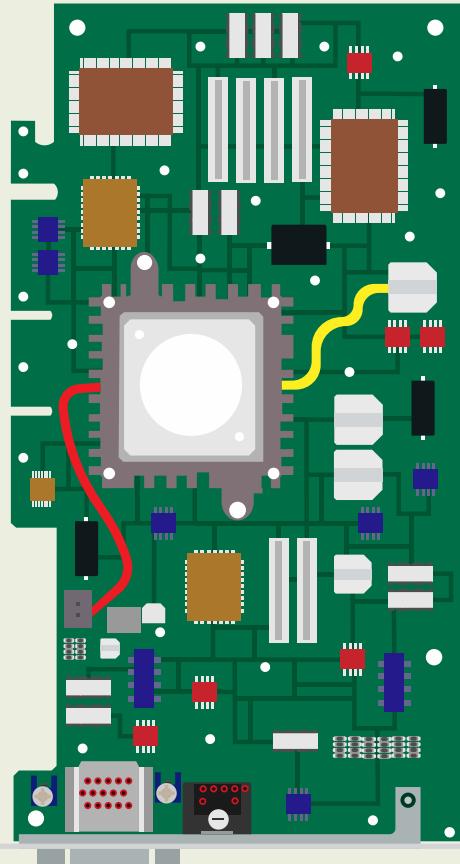


# What is Chip Level?

Chip Level repairing training course is done by an individual in order to become a well qualified primary engineer who will be able to deal with the problems encountered on the chips of computers, laptops, mobile or any other electronics devices.

After chip level repair training course one can easily identify and fix the raised problem by the use of appropriate tools and machines.

Today all the companies require engineers who can save the cost by repairing that faulty part. This training is called Chip level training, in which the students know every single component of computers to the uttermost detail and can troubleshoot every single kind of faults emerging in any kind of.



## Why Chip Level?

Under chip level repair training course, individuals are taught about the various tools used in the chip level maintenance and repair of various devices. All individuals' whether belonging to Electronics or non-electronic background enables them to make their career in circuit repairing business.

### Benefits of Chip Level Repair Training

1. Basic understanding of electronic and micro components
2. Learn basic fundamentals of laptops
3. Know the working of laptop, desktops and notebooks
4. Able to operate the power management of laptop
5. Know the working process of batteries and power adaptors



# SYLLABUS

## 1. BASIC ELECTRONICS

### 1. BASIC ELECTRONICS

- A/C & D/C Current
- Soldering & De-soldering
- Balling & Re-balling Chips
- IC replace using Blower
- How to use Multimeter
- SMD Rework station
- How to check components in electronics
- Circuit Tracing, IC Soldering

### 2. RESISTORS

- Carbon film resistor (Color Coding)
- Digital resistor

### 3. CAPACITORS

- Mica Capacitors
- Polarized Capacitor
- Ceramic Capacitor
- Digital Capacitor

### 4. DIODES

- Rectifier Diode
- Zener Diode

### 5. TRANSISTORS

- P-N-P, N-P-N
- Power Transistor
- Digital Transistor

### 6. TRANSFORMERS

- Step – up Transformer
- Step down Transformer

### 7. FET: (field effect transistor)

- MOSFET
- JFET

### 8. FUSES

- Analog Fuse
- Digital Fuse

### 9. ICS

- BIOS IC
- SMD IC
- Charging IC
- VRM IC
- PWM IC

# SYLLABUS

## **2. COMPUTER HARDWARE (A+)**

### **1. MOTHERBOARDS:**

- Identification of P1, P2, P3, P4 MB
- Components, Connectors, Chipsets on MB
- Finding suitable Motherboard for Processors
- Identification of Ports, Front Panel, USB, Audio pins

### **2. PROCESSORS/CPU:**

- Features & Difference of Processors
- Manufacture Companies of CPUs
- P1 to P4, DUAL CORE, CORE 2 DUO, i3, i5, i7, i9
- ATHALON, DURON, SEMPHRON, TURION

### **3. MEMORY (RAM):**

- Types of RAM
- Identification of SDRAM, DDR, DDR2, DDR3, DDR4

### **4. SMPS:**

- Types of SMPS, AC/DC
- Connecting of AT & ATX SMPS

### **5. VGA DISPLAY CARDS:**

- Types of VGS, SVGA & AGP
- Installation of Video Cards
- Types of I/O slots, I/O Cards

### **6. HARD DISK DRIVE:**

- Difference between HDDs
- IDE, SATA, SCSI & USB HDDs

### **7. PC ASSEMBLING & DISASSEMBLING BIOS CONFIGURATION:**

- BIOS setting in desktop & laptops
- Identification of BIOS keys for MB & Laptop
- Configuration of BIOS Devices

# SYLLABUS

## **3. MOTHERBOARD REPAIRING**

- 1. INTRODUCTION & IDENTIFICATION OF MOTHERBOARDS**
- 2. IDENTIFICATION OF ICs**
- 3. FINDING SUITABLE MOTHERBOARD FOR PROCESSOR**
- 4. VOLTAGE CHECKING ON WORKING & DEAD MOTHERBOARDS:**

- Standby Section
- RAM Section
- CPU section
- Southbridge Section
- Northbridge Section
- Super I/O Controller Section

## **5. TYPES OF BIOS ICs**

- Horizontal BIOS IC, Square BIOS IC, 8 Pin BIOS IC
- Voltage checking of BIOS IC
- Testing & fault finding of BIOS with Debug Card
- BIOS beep Codes of Motherboard

## **6. TROUBLESHOOTING**

- No Display (IC Replacement)
- No power (dead condition)
- Automatic Hanging, Restart, Shutdown
- Automatic Start
- HDD, CD, DVD Not Detecting
- Clock Signal Checking with CRO

## **7. SMPS (POWER SUPPLY)**

- No power, low outputs
- Power good problems

## **8. CD, DVD WRITERS**

- Not Detecting, Belt Problems
- Reading & Writing Problems

## **8. HDD**

- Not Detecting Problems
- Logic Card, Bad Sectors Problems

# SYLLABUS

## 4. ADVANCED LAPTOP CHIPLEVEL

### 1. INTRODUCTION OF LAPTOP & PARTS IDENTIFICATION

- Difference between Laptop & Desktop
- Laptop Assembling & Dissembling
- Motherboard, LCD, Inverter, Keypad, Touchpad, CD/DVD
- Processors, RAMS, Bluetooth, Wi-Fi, CCFL, Batteries
- ICs Identification, I/O IC, Power IC, PWM IC, VRM IC, BIOS IC, Sound LAN IC Board side Problems & Adaptor Repairing
- Motherboard Block diagram and Circuit Tracing
- Processor Section Voltage Checking
- RAM Section & Standby Section Voltage Checking (with Battery & Adaptor)
- Clock Signal Checking with CRO
- BIOS Flashing, Southbridge, Northbridge Section Checking

### 2. I/O SECTION PROBLEMS

- Keypad, mouse pad, LAN, SOUND, USB, Wi-Fi and Bluetooth
- HDD, DVD, Modem troubleshooting and repair

### 3. BOOTING PROBLEMS

- HDD, DVD, not detecting
- Booting Password Problems

### 4. CHARGING PROBLEMS

- Low back up, no back up
- Battery not charging

### 5. SCREENSIDE PROBLEMS

- Inverter, dull, dim, display
- CCFL Changing, LVDS Checking
- Hinges and Screen Replacement

### 6. TROUBLESHOOTING:

- No power, No Display
- Hanging, Restart, Shut Down Problems
- OS problems, BIOS Password Problems

# SYLLABUS

## 5. MONITOR

### 1. *Introduction of Monitors*

### 2. *Types of Monitors*

### 3. *L.C.D. & L.E.D. Monitors:*

- Identification of parts
- Sections of LCD & LED Monitor
- Block diagram of LCD & LED Monitors
- Voltage checking on working Monitors

### 4. *SECTION WISE CHECKING:*

- Power Supply
- Inverter Section
- CCFL changing
- Video Controlling Section
- LVDS Section

### 5. *TROUBLESHOOTING:*

- No Power
- No Display
- Width/Height Problem
- Colours Problem
- Junk Display
- Dull Display

# SYLLABUS

## **6. OPERATING SYSTEM**

### **1. INSTALLATION OF OPERATING SYSTEM**

- Win XP, Win7/8.1, Linux, Win 10, Server OS
- Creating Partitions of HDD
- Formatting FAT, NTFS, DM
- Installation of dual Booting OS
- Disk Management & User Management

### **2. INSTALLATION OF DRIVERS:**

- Installation of Display Drivers
- Sound, Chipset, Web Drivers
- Printer, LAN, Modem, Wi-Fi
- Installation Of Applications
- MS Office, Anti-Virus, Photoshop

### **3. TROUBLESHOOTING:**

- No power, No Display, Beep Sounds
- OS Application Problems
- Automatic Shutdown, Restart
- Blue Screen Error, Fan Problem

### **4. ADVANCED CONCEPTS:**

- Remove OS password
- Repair bad sectors
- Data recovery
- Using pen drive as a RAM
- Installation of OS from pen drive
- Clearing BIOS Password
- VM ware installation for multiple OS

# SYLLABUS

## **7. PRINTER**

- Introduction Of Printers:*
- Dot Matrix Printer*
- Inkjet Printer*
- Laser Printer*
- Scanner*
- Cartridge Refiling*

## **8. CCTV CAMERA**

- Introduction of CCTV*
- Types of CCTV camera*
- Introduction and types of DVR*
- SMPS*
- Cables and Connectors*
- How to install CCTV camera and online streaming on DVR*

# Other Courses we offer

- Computer Networking
- Windows Operating System
- Computer Hardware
- AWS Cloud
- CCNA
- CCNP
- Ethical Hacking
- edhat Certified Solutions Associate
- Microsoft Azure Administrtror
- Microsoft Certified Solution Associate
- Automation with Python & Powershell

and much more



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