

# START YOUR FIRST JOB WITH ONE YEAR EXPERIENCE!



**ICHNP**

IIHT Certified Hardware &  
Networking Professional



**ACHNP**

Advanced Certified Hardware &  
Networking Professional



## CompTIA Training Partner

- IIHT has been the first member of CompTIA from India.
- IIHT has been a pioneer in bringing CompTIA Certifications to the Indian Market.
- We are one among the early CAPP (CompTIA Authorized Partner Program) certified members in India.
- Being a CAPP certified member, IIHT becomes the first to be benefitted in terms of new courses, launches and offers, which are directly passed on to the students.



## Microsoft Gold Certified Partner For Learning Solutions (Microsoft Gold CPLS)

- IIHT is a Gold certified partner of Microsoft, and is one of the oldest and Premier partners of Microsoft.
- Through this partnership, IIHT has always leveraged and able to introduce the latest technology launched in the market through the FLC (First look clinic).
- IIHT is the phenomenal contributor in terms of MS Certifications and also second largest contributor to the International certifications in India.



## Red Hat Training Partner

- IIHT is one of the largest Training Partners of Red Hat in India.
- We offer a variety of industry respected courses.
- The flagship courses of Red Hat offered at IIHT centres are RedHat Linux RHCT, RHCE and Enterprise Security to corporate and individuals.
- IIHT provides platform to individuals to get RHCT and RHCE certifications.



## Sikkim Manipal University

- IIHT has tied up with Sikkim-Manipal University for offering BSc-IT IMS for both India and other Asian countries.



## Prometric

- IIHT with its alliances with Prometric, provides online testing and certification.
- This testing is conducted to individuals across selected centres of IIHT in India and also has its presence in various other countries all over the world.

## IIHT, your Career Saver!

Is building your career great concern after your formal education? The main mantra of achieving career success is to find out the right path.

IIHT is a recognized training institution for hardware and networking technology which is crafting careers since 1993. From its inception, IIHT has grown to become one of India's biggest hardware & networking training companies. IIHT has recognized the potential of IMS and consequently, concentrated its efforts on providing latest job related courses in the market.

## IIHT Beyond Education!

- India's No.1 IT Infrastructure Management Services training company
- Focus only on IT IMS training since our inception in 1993
- Training solutions that fit every learning style, schedule, preference and geography
- Top quality training experience and State-of-the-art infrastructure
- IIHT has developed LaaS (Learning-as-a-Service) cloud to support training in cloud computing on clouds
- Has over 200 centers in India. Has significant presence in Kenya, Turkey, Tanzania, Ghana, Nigeria, South Africa, China, Malaysia, Liberia, Congo, Ivory Coast, South Africa, Mozambique, Sri Lanka, Nepal, Cameroon, Togo, Qatar and Bahrain.

## IMS boom in India

The Indian IT industry has been growing in leaps and bounds in spite of the setbacks in the IT industry globally. Both outsourcing and off-shoring have increased as India is seen as a nation that can provide cost effective solutions.

The country is going through a sea of changes in terms of business and other management processes. India is geared up to make a big impact on the world market with this change. Thus telecom, petrochemical, banking, insurance, public undertakings, Government sectors, IT and ITES firms and most of the corporate companies are opting for IT implementation on a big scale. In addition to these, even the SOHO segment is growing fast. NASSCOM stated that only 25% of graduates working in IT are readily employable.

The Information Technology (IT) industry has created new economic opportunities for millions of Indians and changed the country's image globally. NASSCOM estimates put direct employment at around 10 million and indirect employment at 20 million by 2020. Even if we factor in the current global economic environment, the truth is that employment in the sector is growing.

The sudden growth has created a wide gap between demand and supply of hardware and networking professionals. There is an immediate necessity of 5 lakh professionals by 2015 and the demand is likely to increase further in the coming years.

## What makes IIHT stand out in the industry?

IIHT is India's only company with many international affiliations such as Hewlett Packard, Microsoft, CompTIA, IBM, RedHat, EMC and Prometric. With its superior quality conscience and experience, IIHT has always outshined in terms of training, infrastructure and delivery. Our team of over 150 subject matter experts and trainers supervise every course to make learning more easy and effective.

## Benefits which students enjoy:

- The domain knowledge and technical expertise of IIHT faculty enhances the quality and the understandability of the technology
- We have a team of technology analysts who help us constantly identify, analyze and incorporate the latest technological trends into our courses
- We provide practical – hands on training and unique classroom lab facility to enable students to experience and improve the application skills
- We provide students with the best courseware that are exclusively designed to meet standards of quality, relevance, recognition and understandability
- As a value add, Communication Skills, Personality Development and Soft skills training is provided to ease the students excel in the work proficiency
- Comprehensive exams, which include assignments and online examination, are conducted to assess students
- Mock Interviews are conducted to enable the students to understand the interview scenario
- Guidance and assistance provided to attend the vendor certification examinations through IIHT affiliated prometric centers
- Strong placement assistance is endowed through support of leading companies' tie up with IIHT

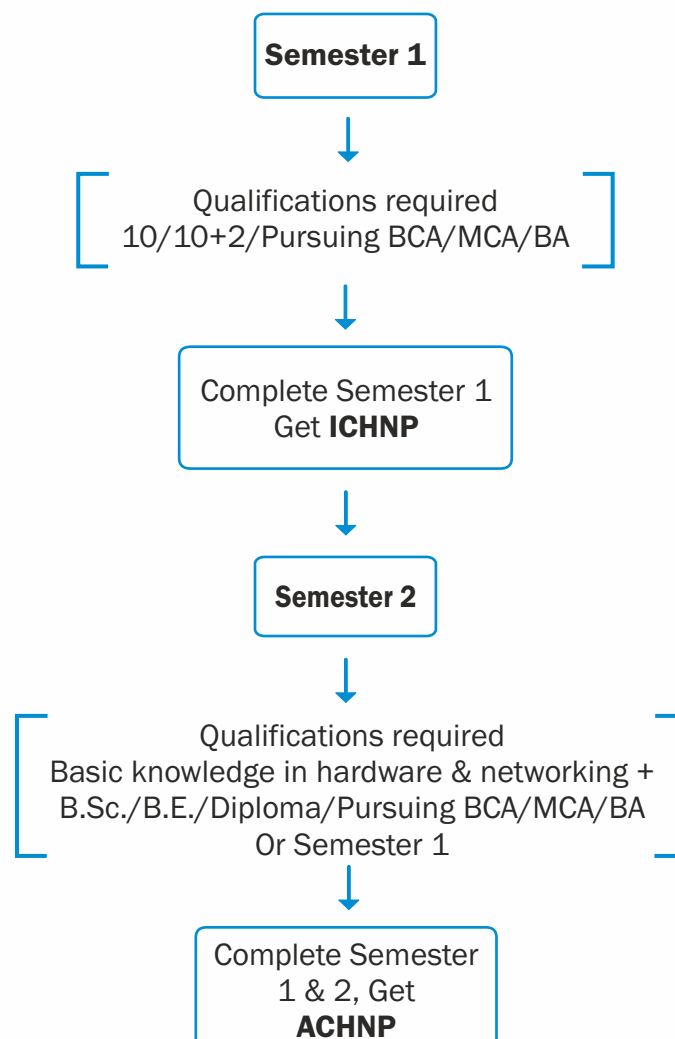
## Future-proof courses: ICHNP and ACHNP

Our new ACHNP course is packed with current technologies that make you an IMS professional in a short span of time. Course implicates technologies from various companies like, Microsoft, Red Hat, Cisco etc.

To enroll for ICHNP (IIHT Certified Hardware & Networking Professional), all you need to have is a 10+2. The course covers the most computer essentials like hardware & networking, Cisco networking, Microsoft Server 2012 and Red Hat Desktop Administration. Additionally you get to learn Office 2010 as a complimentary module.


ACHNP(Advanced Certified Hardware and Networking Professional) takes off from where ICHNP finishes. The course possesses high-end technologies such as Red Hat server administration, Advanced Cisco Networking, Security and Storage technologies. As Cloud is a latest boom in the IT industry, the course covers the fundamentals of Cloud computing too.

### How it works



# Semester 1

Duration: 260 hrs.

	<ul style="list-style-type: none"> <li>• A+</li> <li>• Network+</li> <li>• CCNA</li> <li>• MCSA: Installing &amp; Configuring Windows Server 2012</li> <li>• MCSA: Administering Windows Server 2012</li> <li>• MCSA: Configuring Advanced Win Server 2012 Services</li> <li>• Red Hat System Administration I</li> <li>• Red Hat System Administration II</li> </ul>
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Semester 1 is designed for the novice entries into IMS the world of infrastructure Management Services. The curriculum in this semester is tailored to gear up participants to develop the basic IMS knowledge and further it is fashioned to guide them from basics to advanced topics. The participants, to start with, will be educating or upgrading their skill set pertaining to hardware maintenance and troubleshooting. Learning A+ will augment the participant’s comprehension about the fundamentals of computer and the skill set pertaining to assembling and troubleshooting a computer system. In Network+, they learn about networking standards and troubleshooting networks.

The participants are lead to learn yet another essential technology Cisco (CCNA). This enables the participants to gain the knowledge and skills necessary to select, connect, configure, and troubleshoot the various Cisco networking devices.

Our MCSA course would provide the core platform skills and knowledge necessary for an IT environment in Windows Server 2012 R2. Part one (Exam 410) will train students on Installation configuration and managing the server infrastructure. Part two (Exam 411) will train students on Active Directory services which includes day to day operation like working with users, groups and the policies. Part three (Exam 412) will train students on advance server management and implementing services like federation and rights management. Being one of the most popular flavors of UNIX, Red Hat Linux operating system is introduced to the participants in this semester.

Participants will get Microsoft Office 2010 as a complimentary module, which would enhance the student's acquaintance on the most popular applications used regularly such as Word, Excel, PowerPoint and Outlook.

**This semester leads to certifications like:**

- A+ IT Technician
- Network +
- Cisco Certified Network Associate (CCNA)
- Microsoft Certified Solutions Associate (MCSA)
- Red Hat Certified System Administrator (RHCSA)

**Job Profiles:** Once the students complete this semester they'll be exposed to various job profiles like;

- Hardware Engineer
- PC Support Engineer
- Tech Support Specialist
- Network Administrator
- Linux Administrator
- System administrator on Windows Server 2012

## A+

- Configure and apply BIOS settings
- Differentiate between motherboard components, their purposes & properties
- Compare and contrast RAM types and features
- Install and configure expansion cards
- Install and configure storage devices and use appropriate media
- Identify connector types and associated cables
- Install and configure various peripheral devices
- Properties and characteristics of TCP/IP
- Compare and contrast wireless networking standards and encryption types
- Install and configure laptop hardware and components
- The differences between the various printer types and summarize the associated imaging process
- Compare and contrast the features and requirements of various Microsoft Operating Systems
- Setup and configure Windows networking on a client/desktop
- Basics of client-side virtualization
- Basic features of mobile operating systems
- Mobile device synchronization
- Troubleshooting

## Network+

- Compare the layers of the OSI and TCP/IP models
- Classify how applications, devices, and protocols relate to the OSI model layers
- Purpose and properties of IP addressing
- Understanding Purpose and properties of routing and switching
- Function of common networking protocols
- DNS concepts and its components
- Identify virtual network components
- Install, configure & troubleshooting a wireless network
- Concept of DHCP
- Categorize WAN technology types and properties

- Compare & contrast different Ethernet technologies
- Components of wiring distribution
- Methods of network access security
- Install and configure a basic firewall

## Cisco Routing and Switching (CCNA – ICND I & ICND II)

- Technology and media access control method for Ethernet networks
- Identify basic switching concepts and the operation of Cisco switches.
- Initial switch configuration including remote access management.
- Configure and verify VLANs
- Configure and verify PVSTP operation
- IPv6 addressing scheme
- IPv4 addressing scheme using VLSM and summarization
- Technological requirements for running IPv6 in conjunction with IPv4 such as dual stack
- Basic routing concepts
- Utilization of the CLI to set basic Router configuration
- Configure and verify OSPF (single area)
- Configure and verify EIGRP (single AS)
- Configure and verify DHCP,ACL,NAT & NTP (IOS Router)
- Identify and correct common network problems
- Configure and verify a basic WAN serial connection
- Configure and verify a PPP connection between Cisco routers
- Configure and verify Frame Relay on Cisco routers
- Implement and troubleshoot PPPoE

## **MCSA: Installing & Configuring Windows Server 2012**

- Deploying and Managing Windows Server 2012
- Managing Active Directory Domain Services Objects
- Automating Active Directory Domain Services Administration
- Implementing Ipv4, DHCP, DNS, IPv6 and Local Storage and File and Print Services
- Implementing Group Policy
- Securing Windows Servers Using Group Policy Objects
- Implementing Server Virtualization with Hyper-V

## **MCSA: Administering Windows Server 2012**

- Implementing a Group Policy Infrastructure
- Managing User and Service Accounts
- Maintaining Active Directory Domain Services
- Configuring and Troubleshooting DNS & Remote Access
- Installing, Configuring, and Troubleshooting the Network Policy Server Role
- Implementing Network Access Protection
- Configuring Encryption and Advanced Auditing
- Deploying and Maintaining Server Images
- Monitoring Windows Server 2012

## **MCSA: Configuring Advanced Windows Server 2012 Services**

- Implementing Advanced Network Services
- Implementing Dynamic Access Control
- Implementing Network Load Balancing
- Implementing Failover Clustering with Hyper-V
- Implementing Distributed Active Directory
- Implementing Active Directory Domain Services Sites and Replication
- Implementing Active Directory Certificate Services
- Implementing Active Directory Rights Management Services
- Implementing Active Directory Federation Services

## **RHCSA: Red Hat System Administration I**


- Get Started with the GNOME Graphical Desktop
- Manage Files Graphically with Nautilus
- Configure Local Services
- Manage Physical Storage I
- Manage Logical Volumes
- Get Started with Bash
- Establish Network Connectivity
- Administer Users and Groups
- Manage Files from the Command Line
- Administer Remote Systems
- Manage Physical Storage II
- Install Linux Graphically
- Manage Virtual Machines
- Control the Boot Process
- Deploy File Sharing Services

## **RHCSA: Red Hat System Administration II**

- Automated Installations of Red Hat Enterprise Linux
- Accessing the Command Line
- Regular Expressions, Pipelines, and I/O Redirection
- Network Configuration and Troubleshooting
- Managing Simple Partitions and Filesystems
- Managing Flexible Storage with Logical Volumes
- Access Network File Sharing Services
- Managing User Accounts
- Managing SELinux
- Installing and Managing Software
- Analyzing and Storing Logs
- Tuning and Maintaining the Kernel

## Semester 2

Duration: 274 hrs.

	<ul style="list-style-type: none"> <li>• Red Hat System Administration III</li> <li>• CCNP</li> <li>• Checkpoint</li> <li>• Ethical Hacking</li> <li>• Exchange Server 2013</li> <li>• Storage Fundamentals</li> <li>• Cloud Fundamentals</li> </ul>
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With an ample essence of basics, the participants are set to learn the advanced topics in semester II. Here the focus is on much adored technologies such as Microsoft, Cisco and Linux. In this semester participants are taught Red Hat Linux system administration in detail.

This semester also covers CCNP, which is an advanced Cisco exam. In implementing Cisco IP Routing and Switched Networks papers, the participants will learn to plan and document the configuration and verification of routing protocols and analyze, work and accommodate voice and video on campus network designs in any switched network. With the last paper of CCNP, Troubleshooting and Maintaining Cisco IP Switched Networks (TSHOOT), participants will further enhance their skills in managing and maintaining complex enterprise networks as well as troubleshooting process to resolve problems.

As part of maintaining secure networks, one needs to know the loopholes and vulnerabilities associated with networks. The participants, therefore learn about ethical hacking, perform risk analysis, identify types of attacks and protect the networks from various attacks. Since emails have become an integral part of communication, participants are introduced to Microsoft Exchange Server 2013, a messaging application that is responsible for hosting mailboxes, sending and receiving of emails etc. Through the topic, Storage Fundamentals, participants will gain knowledge of the core logical and physical components that make up a Storage System Infrastructure. The last but very essential topic in this semester is cloud computing, which covers the basic concepts, architecture and practical applications. Here we also cover Checkpoint firewall which has become an integral part of most of the companies. Organizations are growing smarter with potential growth in the IT industry. Along with quality work they emphasis on public relations which becomes the essence of the business. In order to fulfill both, the participants must acquire technical skills as well as the communication and personality development skills, which is covered as a complementary module in this semester.

### This semester leads to certifications like:

- Red Hat Certified Engineer
- Cisco Certified Network Professional (CCNP)
- Certified Ethical Hacker (CEH)
- Check Point Certified Security Administrator (CCSA)
- Exchange Server 2013
- Storage Fundamentals
- Cloud Fundamentals

**Job Profiles:** Once the students complete this semester they'll be exposed to various job profiles like;

- System Engineer on Red Hat Linux
- System Administrator on Windows Server 2012
- Exchange Administrator • Security Specialist
- Network Engineer • Storage Manager
- Cloud Administrator



## **RHCE: Red Hat System Administration III**

- Enhance User Security
- Bash Scripting and Tools
- File Security with GnuPG
- Package Management
- Network Monitoring
- Advanced Network Configuration
- Secure Network Traffic
- NTP Server Configuration
- System Monitoring and Logs
- Centralized and Secure Storage
- SSL-encapsulated Web Services
- Web Server Additional Configuration
- Basic SMTP Configuration
- Caching-Only DNS Server
- File Sharing with NFS, CIFS & FTP
- Troubleshooting Boot Process

## **CCNP: Implementing Cisco IP Routing (ROUTE)**

- Implement an EIGRP based solution, given a network design and a set of requirements
- Implement a multi-area OSPF Network, given a network design and a set of requirements
- Implement an EIGRP based solution, given a network design and a set of requirements
- Implement an IPv6 based solution, given a network design and a set of requirements
- Implement an IPv4 or IPv6 based redistribution solution, given a network design and a set of requirements
- Implement Layer 3 Path Control Solution

## **CCNP: Implementing Cisco IP Switched Networks (SWITCH)**

- Implement High Availability, given a network design and a set of requirements
- Implement a Security Extension of a Layer 2 solution, given a network design and a set of requirements
- Implement Switch based Layer 3 services, given a network design and a set of requirements

- Prepare infrastructure to support advanced services
- Implement VLAN based solution, given a network design and a set of requirements

## **CCNP: Troubleshooting and Maintaining Cisco IP Switched Networks (TSHOOT)**

### **Maintain and monitor network performance**

#### **Troubleshoot Multi Protocol system networks**

- Troubleshoot EIGRP, OSPF, EIGRP
- Troubleshoot routing redistribution solution & a DHCP client and server solution
- Troubleshoot NAT
- Troubleshoot IPv6 routing & IPv6 and IPv4 interoperability
- Troubleshoot switch-to-switch connectivity for the VLAN based solution
- Troubleshoot private VLANs
- Troubleshoot port security & general switch security
- Troubleshoot VACL and PACL
- Troubleshoot Switch Virtual Interfaces (SVIs)
- Troubleshoot switch support of advanced services (i.e., Wireless, VOIP and Video)
- Troubleshoot a VoIP support solution & a video support solution
- Troubleshoot Layer 3 Security
- Troubleshoot configuration issues related to accessing the AAA server for authentication purposes
- Troubleshoot security issues related to IOS services

## **CCSA: Checkpoint**

- Introduction to Checkpoint
- Installing and Configuring
- Working With Graphical Interface
- Using Policy
- Applying Network Address Translation
- User Client and Session Authentication
- Open Security (OPSEC) and Content Filtering
- Managing Policies and Logs
- Tracking and Alerts
- SmartDefence

## CEH: Ethical Hacking

- Introduction to Ethical Hacking
- Footprinting and Scanning
- Enumeration
- System Hacking and Trojans
- Denial of Service and Sniffers
- Session Hijacking and Hacking Web Servers
- Web Application Vulnerabilities and Web Techniques Based Password Cracking
- Injection and Hacking Wireless Networks
- Viruses, Worms and Physical Security
- Linux Hacking
- Evading IDS and Firewalls
- Buffer Overflows and Cryptography
- Penetrating Testing
- Exploit Writing and Reverse Engineering

## Microsoft Exchange Server 2013

- Deploying and Managing Microsoft Exchange Server 2013
- Planning and Configuring Mailbox Servers
- Managing Recipient Objects
- Planning and Deploying Client Access Servers
- Planning and Configuring Messaging Client Connectivity
- Planning and Implementing High Availability
- Planning and Implementing Disaster Recovery
- Planning and Configuring Message Transport
- Planning and Configuring Message Hygiene
- Planning and Configuring Administrative Security and Auditing
- Monitoring and Troubleshooting Microsoft Exchange Server 2013

## Storage Fundamentals

- Introduction to Information Storage and Management
- Storage System Environment
- Data Protection: RAID
- Intelligent Storage Systems
- Direct Attached Storage and Introduction to SCSI

- Storage Area Network
- Network-Attached Storage
- IP SAN
- Content Addressed Storage
- Storage Virtualization
- Introduction to Business Continuity
- Backup and Recovery
- Local Replication
- Remote Replication
- Securing the Storage Infrastructure
- Managing the Storage Infrastructure

## Cloud Fundamentals

- Grasping the Fundamentals
- Discovering the Value of the Cloud for Business
- Getting Inside the Cloud
- Developing Your Cloud Strategy
- Seeing the Advantages of the Highly Scaled Data Center
- Exploring the Technical Foundation for Scaling Computer Systems
- Checking the Cloud's Workload Strategy
- Managing Data
- Discovering Private and Hybrid Clouds
- Seeing Infrastructure as a Service
- Exploring Platform as a Service
- Using Software as a Service
- Understanding Massively Scaled Applications and Business Processes
- Setting Some Standards
- Managing and Securing Cloud Services
- Governing the Cloud
- Virtualization and the Cloud
- Managing Desktops and Devices in the Cloud
- Service Oriented Architecture and the Cloud
- Managing the Cloud Environment
- Banking on Cloud Economics
- Starting Your Journey to the Cloud
- Ten (Plus One) Swell Cloud Computing Resources
- Ten Cloud Do's and Don'ts

## Our students working in the industry



TARUN KUMAR  
INFOSYS



YOGESH  
MICROSOFT



WATSON PINTO  
WIPRO INFOTECH



YOGENDRA SINGH  
IBM



BINDIYA  
TECH MAHENDIRA



HIRICHITHA  
FIRST AMERICAN



Mohammed Rizwan  
CAPEGEMENI



PRAJWAL NAG  
MICROLAND



RAYMOND  
WIPRO INFOTECH



AKASH SINGH  
EMC



AVINASH  
STRATOAGENT



BALAKRISHNAN  
FLIPKART

## State-of-the-art Infrastructure





**IIHT**  
FUTURE-PROOF CAREERS

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