

# We Build Careers

COMPTIA A + SECURITY+ CLR  
SECURITY+ SMPS MOTHER BOARD  
MCSE  
MCTS CCNA RHCE MONITE  
MCSA CLR PRINTER CWT  
Network+ RHCSS  
COMPTIA A + RHCE SM  
MCSA SECURITY+ CWNA  
RHCE CCNA MOTHER BOARD  
SMPS CWNA MCSE CC  
PDP RHCSS MCTS  
RHCE MCITP  
MOTHER BOARD MCSE PRINTER  
MCSA CCNP MCSA  
MCSE CLR SMPS RHCE  
COMPTIA A + SECURITY+ PRINTER  
Network+  
I APTOP SECURITY+ MOTHER BOARD



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## CompTIA A+ 2007

Duration - 160 hrs

### A+ ESSENTIALS (220-601)

- PC Components
- Portable Devices
- Operating Systems
- Printers and Scanners
- Networks
- Security
- Safety and Environmental Issues

### A+ IT Technician (220-602)

- Optimize and Upgrade
- Identify Tools
- Diagnostic Procedures
- Troubleshooting Techniques
- Recovery and Back Up

## CompTIA Network+ 2009(N10-004)

Duration - 100 hrs

### Network Technologies

- Networking Protocols
- Used TCP and UDP Default Ports
- IPv6, IPv4 and MAC Addressing Formats
- Addressing Technologies and Schemes
- Wireless Communication Standards

### Network Media and Topologies

- Categorize Standard Cable Types
- Identify Common Connector Types
- Identify Physical Network Topologies
- Differentiate and Implement Wiring Standards
- Categorize LAN & WAN Technology Types
- Characteristics of Logical Network Topologie

### Network Devices

- Install ,Configure and Differentiate
- Concept of Routing and Switching

### Network Management

- OSI and DoD Model
- Network Monitoring Utilities
- Network Performance Optimization
- Network Troubleshooting Methodology

### Network Tools

- Command Line Interface Tools
- Utilize The Appropriate Hardware Tools

### Network Security

- Hardware and Software Security Devices
- Firewall
- Network Access Security
- User Authentication
- Device Security

## Cisco Certified Network Associate (CCNA) 640-802

Duration - 120 hrs

- Internetworking
- Introduction to TCP/IP
- Subnetting and VLSMs
- Troubleshooting TCP/IP
- Internetworking Operating System (IOS)
- Security Device Manager (SDM)
- Managing a Cisco Internetwork
- IP Routing
- Enhanced IGRP (EIGRP)
- Open Shortest Path First (OSPF)
- Layer 2 Switching
- Spanning Tree Protocol (STP)
- Virtual LANs (VLANs)
- Cisco Security
- Network Address Translation (NAT)
- Cisco's Wireless Technologies
- Internet Protocol Version 6 (Ipv6)
- Wide Area Networks

## Microsoft Certified Systems Administrator (MCSA)

Duration - 120 hrs

### Core Exams on Networking Systems

- 70-290: Managing and Maintaining a Windows Server 2003 Environment
- 70-291: Implementing, Managing, and Maintaining a Windows Server 2003 Network Infrastructure

### Core Exam on Client Operating Systems

- 70-270: Installing, Configuring, and Administering Windows XP Professional

### Elective Exam

- 70-284: Implementing and Managing Microsoft Exchange Server 2003

## Microsoft Certified Systems Engineer (MCSE)

Duration - 180 hrs

### Core Exams on Networking Systems

- 70-290: Managing and Maintaining a Windows Server 2003 Environment
- 70-291: Implementing, Managing, and Maintaining a Windows Server 2003 Network Infrastructure
- 70-293: Planning and Maintaining a Windows Server 2003 Network Infrastructure
- 70-294: Planning, Implementing, and Maintaining a Windows Server 2003 Active Directory Infrastructure

### Core Exam on Client Operating Systems

- 70-270: Installing, Configuring, and Administering Windows XP Professional

### Design Exam

- 70-298: Designing Security for Windows Server 2003 Network

### Elective Exam

- 70-284: Implementing and Managing Microsoft Exchange Server 2003

## Microsoft Certified Technology Specialist (MCTS) Any One

Duration - 40 hrs

- 70-640: TS: Windows Server 2008 ActiveDirectory, Configuring
- 70-642: TS: Windows Server 2008 Network Infrastructure, Configuring
- 70-643: TS: Windows Server 2008 Applications Infrastructure, Configuring

## Microsoft Certified IT Professional (MCITP) : Server Administrator

Duration - 120 hrs

### Required MCTS exams

- 70-640: TS: Windows Server 2008 Active Directory, Configuring
- 70-642: TS: Windows Server 2008 Network Infrastructure, Configuring

### Professional Series exam

- 70-646: PRO: Windows Server 2008, Server Administrator

## Microsoft Certified IT Professional (MCITP) : Enterprise Administrator

Duration - 180 hrs

### Required MCTS exams

- 70-640: TS: Windows Server 2008 Active Directory, Configuring
- 70-642: TS: Windows Server 2008 Network Infrastructure, Configuring
- 70-643: TS: Windows Server 2008 Applications Infrastructure, Configuring

### Core Exam on Client Operating Systems

- 70-620: TS: Windows Vista, Configuring

### Professional Series exam

- 70-647: PRO: Windows Server 2008, Enterprise Administrator

## MCTS on SQL Server 2008

Duration - 40 hrs

- 70-432: TS: Microsoft SQL Server 2008, Implementation and Maintenance

## MCITP on Database Administrator 2008

Duration - 80 hrs

- 70-432: TS: Microsoft SQL Server 2008, Implementation and Maintenance
- 70-450: PRO: Designing, Optimizing and Maintaining a Database Server Infrastructure

## Red Hat Certified Engineer (RHCE) RH-302

Duration - 120 hrs

### RH033 RED HAT LINUX ESSENTIALS

- Understand the Linux file system
- Use and customize the GNOME interface
- Open, edit, and save text documents using the vi editor
- File access permissions
- Printing commands and utilities
- Network utilities for the user

### RH133 RED HAT LINUX SYSTEM ADMINISTRATION

- Create and maintain the Linux filesystem
- Configure an NFS client and autofs
- Configure a workstation as a client to NIS, DNS, and DHCP services
- Administer the Linux printing subsystem
- Update the Linux kernel from an RPM

### RH253 RED HAT LINUX NETWORK & SECURITY

- Security administration using Red Hat Enterprise Linux
- Introduction to security
- Developing a security policy
- Local security
- Files and filesystem security
- Password security
- Kernel security
- Basic elements of a firewall

## Red Hat Certified Security Specialist (RHCSS)

Duration - 120 hrs

Current RHCEs will obtain RHCSS certification upon successfully passing all three Expertise Exams:

- EX333 Red Hat Enterprise Security: Network Services
- EX423 Enterprise Directory Services and Authentication
- EX429 SELinux Policy Administration

## RHS333 Red Hat Enterprise Security: Network Services

- The Threat Model and Protection Methods
- Basic Service Security
- Cryptography
- Logging and NTP
- BIND and DNS Security
- Network Authentication: RPC, NIS, and Kerberos
- Network File System
- OpenSSH
- Mail with Sendmail
- Postfix
- FTP
- Apache security
- Intrusion Detection and Recovery

## RH423 Red Hat Enterprise Directory Services & Authentication

- Introduction to Directory Services
- The LDAP Naming Model
- Red Hat Directory Server: Basic Configuration
- Searching and Modifying the LDAP Directory
- Red Hat Directory Server: Authentication and Security
- Linux User Authentication with NSS and PAM
- Centralized User Authentication with LDAP
- Kerberos and LDAP
- Directory Referrals and Replication
- Cross-Platform Centralized Identity Management
- Red Hat Enterprise IPA

## RHS429 Red Hat Enterprise SELinux Policy Administration

- Introduction to SELinux
- Using SELinux
- The Red Hat Targeted Policy
- Introduction to Policies
- Policy Utilities
- User and Role Security
- Anatomy of a Policy
- Manipulating Policies
- Project

## Cisco Certified Network Professional (CCNP)

Duration - 160 hrs

### Building Scalable Cisco Internetworks (BSCI) 642-901

- Implement EIGRP operations
- Implement multiarea OSPF operations
- Describe integrated IS-IS
- Implement Cisco IOS routing features
- Implement BGP for enterprise ISP connectivity
- Implement multicast forwarding
- Implement Ipv6

### Building Cisco Multilayer Switched Networks (BCMSN) 642-812

- Implement VLANs
- Conduct the operation of Spanning Tree protocols in a hierarchical network
- Implement Inter-VLAN routing
- Implement gateway redundancy technologies
- Describe and configure wireless client access
- Describe and configure security features in a switched network
- Configure support for voice

### Implementing Secure Converged Wide Area Networks (ISCW) 642-825

- Implement basic teleworker services
- Implement Frame-Mode MPLS
- Implement a site-to-site IPsec VPN Describe network security strategies
- Implement Cisco Device Hardening
- Implement Cisco IOS firewall
- Describe and configure Cisco IOS IPS

### Optimizing Converged Cisco Networks (ONT) 642-845

- Describe Cisco VoIP implementations
- Describe QoS considerations
- Describe DiffServ QoS implementations
- Implement AutoQoS
- Implement WLAN security and Management



## CompTIA Security+ 2008 (SYO-101)

Duration - 60 hrs

### System Security

- OS Hardening Procedures to Workstation and Server Security
- Establish Application Security

### Network Infrastructure

- Network Security Tools
- Vulnerabilities and Mitigations Associated with Network Devices, Transmission Media and Wireless Networking

### Access Control

- Organize Users and Computers Security Groups, Roles, Rights and Privileges
- Security Controls to File and Print Resources

### Assessments and Audits

- Use Monitoring Tools on System and Networks
- Detect Security Related Anomalies

### Cryptography

- Implement Various Protocols
- Core Concepts of Public Key Cryptography

### Organizational Security

- Redundancy Planning and its Components
- Implement Disaster Recovery Procedures

## Certified Wireless Network Administrator (CWNA) PWO-104

Duration - 60 hrs

- Introduction to Wireless LANs
- Radio Frequency (RF) Fundamentals
- Radio Frequency (RF) Math
- Antennas
- Antenna Accessories
- Spread Spectrum Technology
- Wireless LAN Infrastructure Devices
- Wireless LAN Organizations and Standards
- 802.11 Network Architecture
- MAC and Physical Layers
- Troubleshooting Wireless LAN Installations
- Wireless LAN Security
- Site Survey Fundamentals

## Chip Level Repairing (CLR):

### Basic Electricals and Electronics (BEE) Basic Electricals

Duration - 16 hrs

- Concept of electricity
- Electric Terms, Notation & prefix
- The Electric circuit & voltage generation
- Using a Digital Multimeter
- Series and Parallel Circuit
- Magnetism & Electromagnetism

### ANALOG ELECTRONICS

- Resistor, Capacitor and Diode
- Coil, Transformer and Transistor
- Transistor Biasing and Amplifier
- Field Effect Transistor

### DIGITAL ELECTRONICS

- Introductory Digital Concept
- Integrated Circuit Technology
- Number System
- Logic Circuit & Design
- Combinational Circuit
- Sequential Circuit

### SMPS

Duration - 36 hrs

- Working Principle
- Block Diagram of SMPS
- Describe AT, ATX & BTX
- Connector Details
- Voltage and Color Standard
- Circuit Tracing
- Fault Finding & Repairing

### PRINTER

Duration - 60 hrs

- Printer Mechanism
- Block Diagram
- Power Supply
- Printer Logic
- Menu Setup
- Refilling
- Optimization & Troubleshooting

### MONITOR

Duration - 70 hrs

- Fundamentals & Block Diagram
- CRT & LCD
- Circuit Tracing
- On Line Checking
- Fault Finding & Repairing

## MOTHER BOARD

Duration - 80 hrs

- Working Principles & Methodology
- Block Diagram
- Using Digital Meters & SMD Rework Station
- Signal Testing Through POST Card
- CMOS Problem
- Circuit Tracing
- Fault Finding
- Chip Level Repairing
- Optimization & Troubleshooting

## LAPTOP

Duration - 40 hrs

- Mechanism
- Working Principle
- Block Diagram
- Describe Power Control & Battery Section
- TFT/LCD Panel Problem
- Circuit Tracing
- OS & Driver Installation
- Data Recovery & Upgrade
- Fault Finding & Repairing

## PC Peripherals (KB Mouse,DVD-RW & HDD)

Duration - 16 hrs

- Working Principles & Methodology
- Block Diagram
- Circuit Tracing
- Fault Finding
- Repairing

## NiHT Smart Personality Development Program

Duration - 20 hrs

### Personality Development

- Self Development/self Awareness
- Attitude
- Interpersonal Skills
- Leadership Skills

### Interview Skills

- Resume writing
- Personal grooming
- Dress code
- Body language
- Interview Questions & Answers Guidance
- Mock Interview Sessions

### Time Management Stress Management Over View of Sales & Marketing

# CAREER

# COURSES

**SYSTEM ARCHITECT + 18 MONTHS**

A+, N+, CCNA, MCITP, RHCE, PDP

**SYSTEM ARCHITECT 18 MONTHS**

A+, N+, CCNA, MCSE, RHCE, PDP

**NETWORK SMART + 13 MONTHS**

A+, N+, CCNA, MCSE/RHCE, PDP

**NETWORK SMART 10 MONTHS**

N+, CCNA, MCSA/RHCT, PDP

**HARDWARE SPECIALIST + 20 MONTHS**

A+, N+, BEE, SMPS, PRINTER, MONITOR,

MOTHERBOARD, LAPTOP, PC PERIPHERALS, PDP

**HARDWARE SPECIALIST 15 MONTHS**

A+, BEE, SMPS, PRINTER, MONITOR,

MOTHER BOARD/LAPTOP, PC PERIPHERALS, PDP

**HARDWARE SMART+ 12 MONTHS**

A+, BEE, SMPS, PRINTER, MONITOR, PDP

**HARDWARE SMART 10 MONTHS**

A+, BEE, SMPS, PRINTER/MONITOR, PDP

**PC MAINTENANCE & NETWORKING 8 MONTHS**

A+, N+, BEE

**CAREER + 6 MONTHS**

A+, N+



### The Institute

Established with an aim to be a world class institute offering excellence in training and consultancy to suit the ever growing demand of the industry, NiHT has grown to be one of the leading computer hardware networking and call centre training institutes in Eastern India.

### The Placement Division

We can boast of having an outstanding placement division which has successfully catered and provided requisite manpower to various companies in India. Our regular corporate interactions with unbeaten entrepreneurs ensure excellent and sheltered placements. The placement cell works tirelessly to churn out resources as per the industry demands and our students are rewarded as per industry standards.

### Advantage NiHT

- Initiated and led by a group of experts with experience in the IT and ITes industry.
- Imparting the best of knowledge coupled with practical orientation.
- Fun-filled and interactive sessions with audio visual techniques.
- Technology enabled infrastructure.
- Constant up-gradation of course modules.

According to the NASSCOM- McKinsey report on the IT industry of India, the projected revenue of the IT industry of India for the year 2008 is 87 billion US Dollars. The projected exports of the year 2008, accord to this report, is 50 billion US Dollars.

### Company Testimonial

Ujjal Khan, Atanu payra, Rakesh jaishwal, Students of NiHT, are joined in HCL INFOSYSTEMS.LTD at Kolkata. They are good in their technical and co-operative also.

We look forward to more of qualified manpower from NiHT in the near future.

TRIDIP CHAKRABORTY  
HCL INFOSYSTEM-KOLKATA



Chandan Kr Srivastav  
SPANCO



Atanu Paira  
HCL Infosystem



Dipankar Mukherjee  
FIRST SOURCE



Deepa Chaki  
TATA INDICOM



Rakesh Jaiswal  
HCL Infosystem



Ujjal Khan  
HCL Infosystem



Somnath Mallick  
CMS



Debranjjan Das  
HCL

### Our Tie-ups :



Learning Solutions



PROMETRIC



### COUNSELOR SUGGESTION



We Build Careers

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ATC