CCNA – Cisco Certified Network Associate

- Describe the Purpose & Functions of various Network Devices
- IP Addressing, Subnetting & VLSM
- Configure and Verify VLANs
- Basic Routing Concepts
- Boot Process of Cisco IOS Routers
- Utilization of the CLI to Set Basic Router Configuration
- Routing Configuration for a Static or Default Route
- Configuration & verify RIP Basics RIP version 1 & RIP version 2

- Configuration & verify OSPF (Single Area)
- Configuration & verify EIGRP (Single AS)
- Configure & Verify DHCP, ACL, NAT and PAT (IOS Router)
- Identify & Correct Common Network Problems
- Configuration & verify a PPP Connection between Cisco Routers
- Configuration & verify a basic WAN serial Connection
- Configuration & verify Frame-Relay on Cisco Router
- Troubleshooting & Monitoring

REDHAT - LINUX

System Administration -I

- Introduction of Red hat Linux
- Installation of Red hat Linux
- Access the Command Line
- Manage Files from the Command Line
- Create, View & Edit Text Files
- Manage Local Users & Groups
- Control Services & Daemons
- Manage Networking
- Archive & Transfer Files
- Access Linux File Systems

System Administration -II

- Improving Command Line Productivity
- Schedule Future Tasks
- Manage SELinux Security
- Maintain Basic Storage
- Manage Storage Stack
- Access Network-Attached Storage
- Control Boot Process
- Manage Network Security
- Troubleshooting

CLOUD COMPUTING (AWS)

Fundamentals of AWS – Amazon Web Services

- AWS Overview
- Designing Highly Available, Cost-Efficient,
- Fault-Tolerant, Scalable Systems
- About of AWS Free Tier Account
- About of Amazon Regions & Availability Zones
- Elastic Cloud Computing – EC2 & EBS
- Launch an EC2 Windows & Linux Instance
- About of Security Groups EC2
- About of EC2 Volumes

- EC2 Backup & Restore
- EBS Snapshots
- About of Elastic IP Address
- VPC – Virtual Private Cloud
- About of VPC Subnets, Route Tables, Internet Gateway,
- About of NAT Gateways
- VPC Peering
- About of Amazon Simple Storage Service (S3)

JOB PROFILES:-

Once the Students Complete this "LCHNP" Course they will be Exposed to various job: -

Hardware Engineer, PC Support Engineer, Desktop Support Engineer, Tech Support Specialist Network Administrator, System Administrator on Windows Server, Etc.

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COMPUTER EDUCATION

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LCHNP — LEHUB CERTIFIED HARDWARE & NETWORKING PROFESSIONAL

BASIC COMPUTER

BASIC FUNDAMENTALS
- Desktop Properties
- Calculator
- Windows Accessories
- Paint & Extensions
- Notepad & WordPad
- Snipping Tools

INTERNET
- Use of Internet
- Creation of Mail ID
- Browsing & Downloading
- E-Services
- Online Shopping
- Form Filling

MS-WORD
- Create & Formatting Docs.
- Letter & Resume Creation
- Tabs Customization
- Smart Arts
- Formatting Tabular Formats
- Mail Marge, etc.

MS-EXCEL
- Performing Calculation
- Analysis Data
- Reviewing Data
- Pivot Tables Scenarios
- Data Validations use
- Goal Seek & Filters, etc.

MS-POWER POINT
- Creating Impressive Presentation
- Setting of Slid Show
- Hyperlink with Documents
- Different Effect on Slides
- Video Presentation, etc.

ADVANCE EXCEL

MS-ADVANCE EXCEL
- Introduction of Excel
- Menu & Toolbar
- Logical & References
- Text & Information
- Mathematical Functions
- Sum, Sumif, Sumifs
- Countif, Countifs, Averageifs, Rounddown, Sumproduct, etc.
- Date & Time Function
- Data Validation, Data Split, Char
- Conditional Formatting, Filters
- Logical Functions, AND, OR, IF
- Iferror, NOT, Nested If
- VLookup & HLookup
- XLookup & Group & Ungroup
- Pivot Table & Power Chart
- Report Making & Dashboard
- Graphs & Charts, ETC.

HARDWARE (A+)

- What is Computer
- Types of Computers
- Generations of Computer
- Computer Components Identification
- Computer Assembling & Disassembling
- Components in Portable Computer
- Devices Installation and Configuration
- Common IDE, SATA, SCSI and Peripheral Devices
- Types of Motherboards and their Components
- Popular CPU Chips
- Types of Memory (RAM, ROM) DDR1, DDR2, DDR3, DDR4 & 5
- Types of HDD & SSD
- Types of Monitors
- Types of Keyboards & Mouses
- Printer Technologies, interface and options / upgrades
- Troubleshooting Common Computer Problems

OPERATING SYSTEM (O.S)

- What is O.S.
- Software Execution
- O.S. Structures
- Process Management
- Memory Management
- Memory Allocations
- Virtual Memory
- IO Management
- Disk Management
- File System Interface
- File System Implementation
- File System Management
- Windows & Linux Installation & Upgradation
- User & Group Management
- Software Installations & Uninstallation
- Windows Drivers Installation
- Control Panel Management
- Data Recovery & Data Security
- Troubleshooting Common Operating System Problems

NETWORKING (N+)

- Introduction of Networking
- Network vs Networking
- Purpose & Functions of Various Network Devices
- LAN / CAN / MAN / WAN Operation and Features
- Explain Network Topologies
- Explain Network Protocols
- OSI Model vs DOD Model
- IP Addressing Scheme
- Private & Public IP Addresses
- Transmission Basics and Networking Media
- UTP & STP Color Coding, Cabling
- Topologies & Ethernet Standards
- WAN & Remote Connectivity
- Folder & File Sharing
- Internet & Wireless Networking
- In-Depth TCP/IP Networking
- Network Security, Firewall
- Network Management
- Troubleshooting Networking Problems

WINDOWS SEREVR

Face – 1
- Introduction of Windows Server
- Installation of Windows Server
- Managing Server Manager
- About of Server Firewall & IP Address with PING Command
- Folder Sharing & Remote Connectivity
- Implementing DNS Server Primary, Secondary, Stub Zone
- DNS Working with IIS Server
- Implementing DHCP Server DORA Process, Lease Duration

Face – 2
- ADDS Configurations
- Managing Objects in ADDS
- Advance ADDS Infrastructure Management
- Implementing Group Policy
- Managing User Settings with Group Policy
- Managing DC, ADC, Child Domain Server
- Implementing FSRM Server
- Implementing DFS Server
- Implementing WDS Server

Face – 3
- Configuring Local Storage
- Implementing Storage Spaces and Replications
- Implementing and Configuring Hyper-V and Virtual Machines
- Creating and Managing Deployment Images
- Server Backup and Restore
- Troubleshooting Common Server and Network Problems