

Diploma in Computer Hardware & Networking

(DCHN – A+, N+, MCSE, CCNA)

Course Overview

Diploma in Computer Hardware and Networking Technology is Diploma Level Information Technology course. Their technical skills include the ability to construct a computer from scratch as well as the implementation, management and maintenance of computers and network configurations to optimize performance.

Duration: 1 Year

Job Prospects

Once you finish a professional course in Hardware & Networking. After qualifying for the aforementioned courses the candidates would be eligible for varied job roles like.

Job Profiles

- System Administrator
- Network Administrator
- System Engineer
- Technical Engineer
- Computer Hardware Engineer
- Network Engineer
- Technical support
- Help desk technician
- Network support technician
- IT technician
- Hardware Teacher

Course Content

Introduction

- Computer Fundamentals
- Microsoft Certified Applications

Computer Hardware (A+)

- Fundamentals principal of using PC's
- Identification parts of PC's
- Installation parts of PC's
- Installation PC (OS, Drivers, Software)
- Install Configure Optimize and Upgrade PC's
- Printer & Scanners Installation and using.
- Troubleshooting techniques for OS & Software
- Maintenance of PC's components

Computer Networking (N+)

- Fundamental of Networks
- Configure the Lan, Man, Wan Networks
- Configure the peer to peer & server client Networking
- Networking Transmission Media (Wire, Wireless, UTP, STP, Fiber Optic, Coaxial)
- Networking Device (Hub, Switch, Bridge, Router)
- Network Operating System
- Installing Lan Card & configure IP Addressing
- Infrastructure of networking
- The OSI Model & TCP/IP Model
- Lan & Wan remote access technologies
- Networking Troubleshooting

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MCSE: Microsoft Certified System Engineer

- Core Exams : Client Operating System
Exam 70-270 : Installing, Configuring and Administrating Microsoft Window XP Professional.
Core Exams : Networking System
Exam 70-290 : Managing & Maintaining a Microsoft Windows Server 2003,2008 Environment
Exam 70-291 : Implement, Managing & Maintaining a MS Windows Server 2003,2008 Network Infrastructure
Exam 70-293 : Planning and Maintaining a Microsoft Windows Server 2003,2008 Network Infrastructure
Exam 70-294 : Planning, Implementing and Maintaining a Microsoft Windows Server 2003,2008 Active Directory Infrastructure
Core Exams : Design
Exam 70-297 : Designing a Microsoft Windows Server 2003,2008 Active Directory and Network Infrastructure
Exam 70-298 : Designing Security for a Microsoft Windows Server 2003,2008 Network

CCNA: Cisco Certified Network Associate

- Introduction of Reference Model
- Internetworking of Router & Switch
- Network Types & Media
- Configure the TCP/IP, Subnetting
- IP Addressing & Routing Protocols
- WAN Technology & Protocols
- Operating & Configuring Cisco IOS Device
- Managing your Network Environment
- Extending Switched Networking with VLANs
- Spanning Tree Protocol Overview
- Determining IP Route
- Enhanced IGRP and OSPF Protocol.
- Managing IP Traffic with Access Lists
- Establishing Serial Point-to-Point Connections
- Establishing Frame Relay Connections
- Building NAT(Network Address Translation)