

Course Outline

Server+

Duration: 5 days (30 hours)

Learning Objectives:

Target Audience:

Any

Prerequisites:

Students taking this course should be familiar with personal computers and the use of a keyboard and a mouse. Some student experience with servers and network basics would also be beneficial

Topics Covered:

- Defining a server
 - Does your network need a server?
 - Server functions and benefits
 - Classes of servers
- Server Planning
 - Determining the business purpose
 - Server placement
 - Planning physical site readiness
 - Disaster planning
- Motherboard architecture, processors, memory, and BIOS
 - Motherboard architecture
 - Processors
 - Memory CMOS, BIOS, and POST
- Server power and rack installation
 - Server power
 - The rack
- Hard disk interfaces and RAID
 - Hard disks
 - The IDE interface
 - The SCSI interface
 - SCSI configuration
 - Fibre Channel and RAID
- Server upgrades
 - Preparing for a server upgrade
 - Upgrading the processor and memory
 - Updating the BIOS, upgrading power supplies and adapters



- Networking
 - Network topologies and protocols
 - Media access methods and equipment
 - Network cabling
 - Network adapters
- Configuring a network operating system
 - General NOS configuration concepts
 - Novell NetWare
 - UNIX/Linux
 - OS/2
 - Windows NT Server
 - Windows 2000
- Services and applications
 - Services
 - Other services
 - Application servers
- Disaster planning
 - Backup hardware
 - Backup software and strategies
 - Server redundancy and other disaster precautions
 - Developing a disaster recovery plan
- Performance monitoring and optimization
 - Monitoring the server
 - Establishing a baseline
 - Acceptable levels of performance
- Troubleshooting and problem determination
 - Troubleshooting
 - Diagnostic tools
 - Working remotely
 - Troubleshooting viruses and FRUs
 - Troubleshooting tips and getting help