

**Chapter 1: Windows NT Platform**

You will learn:

- Product overview.
- Windows NT architecture.
- Workgroup and domain models.
- Logon access - local and network.
- Networking features.
- Sharing.
- Security features.
- Supported file systems - FAT and NTFS.
- File naming convention in NTFS.
- Network sharing and local NTFS shares.

**Chapter 2: Telecommunications and Windows NT**

You will learn:

- Subnets, subnet masks, gateways, and routers.
- TCP/IP.
- Routing protocols.
- How to map from domain names to IP addresses.
- The role and function of DHCP, WINS, and DNS.

**Chapter 3: Application Processing**

You will learn:

- Differences between 16-bit Windows 3.x and 32-bit Windows NT applications.
- Win.ini and System.ini.
- DOS emulation.
- config.sys and config.nt.
- autoexec.bat and autoexec.nt.
- PIFs and property sheets.

**Chapter 4: Performance Monitor**

You will learn:

- Setting events and intervals.
- Reports issued by the Performance Monitor
- How to determine the baseline for a system.
- Calculating overhead associated with I/O, network traffic, cache memory, and internal memory.
- Evaluating server performance.
- Creating a file of measurement information for analysis, record keeping, and forecasting.
- Analyzing performance and establishing a paradigm.
- Counter organization with Performance Monitor.
- How to use %processor time and working set counters in order to ascertain an applications memory usage.
- Workload balance.
- Tracking disk performance.
- Server throughput statistics.
- Threshold counters.

**Chapter 5: Event Viewer**

You will learn:

- Enabling security logging.
- Interpreting an event - header, description, and event types.
- Viewing specific logged events.
- Viewing details about events.
- Sorting and filtering of events.
- Searching for events.
- How to use event logs for troubleshooting problems.
- How to monitor Windows NT security events.
- Audit file and folder access.
- Audit printer access.
- Halt the computer when the security log is full.
- Use archived log files.
- Viewing a log archived in log file format.
- How to configure auditing.
- How to audit directories and files.

**Chapter 6: Troubleshooting**

You will learn:

- Windows NT: troubleshooting tools.
- Troubleshooting hardware problems with the HCL, NTHQ, and Windows NT Diagnostics.
- Troubleshooting using HKEY\_LOCAL\_MACHINE.
- Finding service and device dependencies.
- Sources of documentation.
- Planning for disaster and recognize the importance of creating standardized recovery procedures.
- Make a Emergency Repair Disk before installing a new software package or making any major changes to the system.
- Make an Emergency Boot Disk that bypasses corrupted boot information.
- Create an Emergency Boot Disk for a mirrored boot partition.
- How to restore a failed server.

**Chapter 7: Profiles and Policies**

You will learn:

- Structure of a user profile.
- ntuser.dat file.
- All users folder.
- Local and roaming user profile.
- Adding users and groups to permissions list.
- Changing the user profile type for slow connections.
- Allowing for different hardware configurations.
- Windows 95 user profiles on Windows NT server networks.
- System Policy Editor.
- Creating user and computer profiles.

**Chapter 8: Registry**

You will learn:

- Registry structure.
- Viewing and modifying the Registry.
- Searching for a key in Registry editor.
- Remotely administering the Registry.
- Backing up and restoring Registry hives.

**Chapter 9: Windows NT Security and C2 Standards**

You will learn:

- C2 Security and Windows NT.
- Windows NT security architecture.
- Window NT resource security model.
- Net Logon service and pass-through authentication.
- Interactive logon.
- Remote logon.
- Pass-through authentication.

**Chapter 10: TCP/IP: DHCP, WINS, and DNS**

You will learn:

- DHCP clients and servers.
- DHCP Manager.
- Starting and stopping the DHCP server service.
- DHCP scopes - creating/removing, and changing properties.
- Administering DHCP clients.
- Managing client leases.
- Managing client reservations.
- DHCP option types.
- Configuring the WINS service.
- Starting and stopping the WINS service.
- Administering WINS servers.
- Connecting to a WINS server.
- Statistics in WINS Manager.
- Adding static mappings.
- Viewing the WINS database.
- Backing up and restoring the database.
- Installing a DNS server.
- Adding a server to the DNS Manager list.
- Working with zones.
- Implementing WINS Lookup.
- Adding a new host.
- Managing subzones.
- Forcing data file updates on the DNS.