

Server Administrator (CIW)



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5 Sessions –

15 Hours of Interactive Training

The Server Administrator designation is required of candidates seeking the CIW Web Site Manager or Master CIW Administrator certifications. In the Server Administrator course from LearnKey, expert instructor Aaron Spurlock shows you user management concepts, how to configure DNS services, and how to provide TCP/IP services. At the conclusion of this course, you'll be prepared to pass CIW Server Administrator exam 1D0-450.

About The Author

Aaron Spurlock is an MCSE+, MCT, CNE and CNI. He has consulted and trained on networks and computing for the past 15 years with Lucent Technologies, Mastering Computers, Scientific-Atlanta and the Florida Marlins, among others. He currently owns Technovation Design in Ogden, Utah, specializing in Windows 2000 and NetWare 5 consulting as well as home and corporate automation technologies.

Session 1

Section A: Introduction to Internet Systems

- Server Administrator Concepts
- Multiplatform Internet
- Open Source
- IT Services
- LAN Support
- WAN Support
- Internet Support

Section B: Hardware & OSs

- Hardware Platforms
- Operating Systems
- Novell NetWare
- Windows
- Unix OS

Section C: OS Installation

- Windows Installation
- Linux Installation
- Windows System Configuration
- Linux System Configuration
- Linux Interface
- Linuxconf Utility
- Webmin Utility

Section D: Network Configuration

- Bandwidth & Network Cards
- TCP/IP Configuration
- Windows IP Configuration
- Assign IP Address in Windows NT
- Windows 2000 IP Configuration
- Linux IP Configuration
- Ifconfig
- Using Webmin

Section E: User Management

- User Concepts
- User Access Levels
- User Authentication
- User Accounts
- Linux Authentication & PAM

Section F: Windows Account Management

- Windows NT & 2000 Domain
- User Manager for Domains
- Windows NT Groups
- Windows 2000 Groups
- Windows Computer Management

Session 2

Section A: Linux Account Management

- User Management
- View Password File
- Display Shadow
- Add User
- User Management Commands
- Default Account Setting
- Lockout Accounts

Section B: User Permissions

- User Rights
- Domain Policy
- Local Security Policy

- Service Accounts
- Permissions
- Windows Permissions
- Assign Permissions in NT
- Assign Permissions in 2000
- Linux Permissions
- Assigning Linux Permissions
- Change Linux Permissions

Section C: DNS

- Domain Name System
- Zones
- Zone Model
- Server & Zone Types

Section D: Linux DNS Servers

- BIND DNS Software
- Windows DNS Software
- BIND Configuration
- Create BIND Zones
- SOA, NS & A Records
- CNAME & MX
- Create DNS Records
- SOA Configuration

Section E: Windows DNS Servers

- Windows 2000 DNS
- DNS MMC
- Create Zone
- Create Secondary Zone

Section F: DNS Clients

- Resolve Configuration
- Windows 2000 Configuration
- Linux Configuration
- DNS Tools
- DNS Troubleshooting
- NSLOOKUP Tool
- DIG Tool

Session 3

Section A: SMB Networking

- Server Message Blocks
- NetBIOS Name Space
- WINS
- WINS Manager
- WINS on Linux
- Configure Samba
- Start SMB Service
- Register Linux WINS Server

Section B: Samba

- Samba Components
- Samba Configuration File
- Sharing Directories
- Configure Shared Directories
- SWAT
- Configure SWAT
- Using SWAT
- Samba in Webmin
- Samba Users
- Edit Samba Users
- Verify Files

Section C: IIS Servers

- World Wide Web
- IIS Overview
- IIS 4.0
- Managing IIS
- Using IIS MMC
- Manage IIS Over the Web
- IIS Web Pages

Section D: Apache Servers

- Managing Apache Server
- Configure Apache Server
- httpd.conf File
- Using httpd.conf to Configure
- Prepare Apache Server
- Start httpd Service

Section E: Apache Directory Configuration

- <directory> Directive
- <files> Directive
- Directives in httpd.conf
- Directive Structure
- <location / server-status>
- Verify Permissions

Section F: CGI

- Common Gateway Interface
- PERL
- Active Server Pages
- Create ASP Document

Session 4

Section A: Virtual Servers

- Multiple Host Sites
- IP Based Hosting
- Create Virtual Host
- Configure IIS
- Apache Virtual Hosting
- Setup with Webmin
- Apache Web Server

Section B: Secure Socket Layer

- Implementing Security
- Certificate of Authority
- SSL Handshake
- Implement SSL
- Set Secure Communications
- Set Up SSL Port
- View Secure Site

Section C: Proxy & Streaming Media Servers

- Proxy Server
- Content Filter & Proxy "Chains"
- Streaming Media Servers
- Streaming Media Applications
- Windows Media Administrator

Section D: Email

- Email Essentials
- MX Records
- SMTP & POP3
- IMAP & LDAP
- Mail Accounts

Section E: Email Servers

- Unix Email Servers
- Windows Email Servers
- Relay & Spam Protection
- Windows 2000 SMTP Server
- SMTP Virtual Server Configuration
- Delivery Options
- Configure MX Records
- Confirm Configuration
- Test Mail Server
- Web Based Email

Server Administrator (CIW) *continued*

Session 5

Section A: FTP Servers

- File Transfer Protocol
- Create FTP Site
- FTP Configuration
- Using FTP
- Create Virtual Directory
- Unix FTP

Section B: Telnet

- Telnet Utility
- Windows 2000 Telnet Server
- TLNT ADMIN
- Using Telnet
- Linux Telnet

Section C: NNTP Services

- Usenet Servers
- IIS NNTP Virtual Server
- Create News Group
- Expiration Policy
- Using News Groups

Section D: Linux Access Control

- Configure xinetd
- Configure hosts.allow & hosts.deny
- Finger Command

Section E: System Performance

- System Logging
- Windows Event Viewer
- Log Analysis
- Webalizer
- Monitoring Server Performance
- Performance Monitor

Section F: Fault Tolerance

- Redundancy
- Raid
- Backup Strategy
- Disaster Recovery
- Windows Backup Utility

Section G: Server Security

- Security Risks
- Software Vulnerabilities
- System Auditing
- Firewalls
- Demilitarized Zones
- Intrusion Detection