



M8uk Ltd.

## Administrator's Guide: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure

**Course Format:** Instructor-led Classroom Learning **Duration:** 5 Days

### Overview

This course will provide IT professionals with the knowledge and skills necessary to plan and maintain a Windows Server 2003 network infrastructure.

### Prerequisites:

Before attending this course, students must have:

- Working experience of at least 1 year administering Microsoft Operating Systems (9.x/2000/XP)
- A strong familiarity with Microsoft Windows® 2000 core technologies, Windows 2000 Professional and Server, Windows XP Pro
- TCP/IP Fundamentals and Subnetting.
- Troubleshoot connectivity using TCP/IP Utilities.
- Understanding of PC hardware and the x86 Platform
- Understanding of basic network structures.

### Outline:

**Lesson 1:** Introducing Windows Server 2003 Network Infrastructure Planning, Tools, and Documentation

Planning a Windows Server 2003 Network  
Preparing Development and Test Environment  
Changing the Environment  
Introducing the Network Design Document

**Lesson 2:** Planning and Optimizing a TCP/IP Physical and Logical Network

Reviewing TCP/IP  
Planning a Functional TCP/IP Solution  
Optimizing Network Performance

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### **Lesson 3: Planning and Troubleshooting Routing**

Reviewing Routing  
Selecting Intermediate Devices  
Planning an Internet Connectivity Strategy  
Planning Routing Communications  
Troubleshooting TCP/IP Routing

### **Lesson 4: Planning a DHCP Strategy**

How DHCP Operates in an Enterprise Environment  
Planning a DHCP Strategy  
Securing a DHCP Strategy

### **Lesson 5: Optimizing and Troubleshooting DHCP**

Determining the Need to Optimize DHCP Performance  
Optimizing DHCP  
Troubleshooting DHCP

### **Lesson 6: Planning a DNS Strategy**

Planning a Namespace  
Planning Zones  
Planning Zone Replication and Delegation  
Planning a DNS Server

### **Lesson 7: Optimizing and Troubleshooting DNS**

Optimizing the DNS Server  
Troubleshooting Host Name Resolution

### **Lesson 8: Planning and Optimizing WINS**

Reviewing WINS  
Planning a WINS Solution  
Identifying WINS Optimization Requirements  
Optimizing WINS Traffic

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## **Lesson 9:** Planning and Troubleshooting IPSec

Reviewing IPSec  
Understanding the Default Policy Rules  
Planning an IPSec Deployment  
Troubleshooting IPSec Communications

## **Lesson 10:** Planning Network Access

Reviewing Network Access  
Selecting Network Access Connection Methods  
Selecting a Remote Access Policy Strategy  
Selecting a Network Access Authentication Method  
Selecting a Network Access Strategy

## **Lesson 11:** Troubleshooting Network Access

Network Access Troubleshooting Resources  
Troubleshooting LAN Authentication  
Troubleshooting Remote Access

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