



Computer Consultants Corporation

Designing a Microsoft Windows 2000 Network Infrastructure

Exam 70-221

Length of course: 3 class days (18 hours)

Prerequisites: Substantial prior knowledge and experience with Windows 2000 is required. The participant should be intimately familiar with the Windows 2000 server and be knowledgeable about installing and implementing networking services within Windows 2000.

Learning Objectives: In this class the participant will learn to analyze business requirements and design an effective network infrastructure.

Network Topology

- Review of concept
- Examples of a valid topology
- Modify and design a topology

Designing a TCP/IP network

- Analyzing IP subnets
- Designing a TCP/IP networking plan
- Optimize a TCP/IP design
- Implement software routing into an existing network

Designing a DHCP strategy

- Implement DHCP into a routed environment
- Implement DHCP with Windows 2000
- Design a DHCP service for remote locations
- Optimize a DHCP networking design

Designing Name Resolution services

- Design an integrated and highly available DNS
- Create a secure DNS
- Optimize a DNS design
- Create a WINS design
- Create a secure WINS design
- Optimize a WINS design

Designing a multi-protocol strategy

- Working w/ IPX/SPX
- Working w/ SNA
- Working w/ other protocols
- Putting it all together

Designing a Distributed file system strategy

- The placement of the Dfs root
- Design a Dfs root replica strategy

Designing for Internet Connectivity

- Design an Internet solution
- Design an Extranet Solution
- Optimize security within the Internet/Extranet solution
- Design a load-balancing strategy

Designing a WAN Infrastructure

- Implementation strategy for dial-up remote access
- Design a VPN strategy
- Design a demand dial routing strategy

Effective Management Strategy

- Monitor and manage Win 2000 network services
- Design a plan for interaction of WINS, DHCP and DNS
- Plan for growth
- Plan for management of resources