

Course Outline
MSFT-278
Planning and Maintaining a Microsoft
Windows Server 2003 Network Infrastructure
3 semester hours

HOWARD COMMUNITY COLLEGE

Description

This course provides students with the knowledge and skills necessary to plan and maintain a Windows Server 2003 network infrastructure. Prerequisite: MSFT-277 (3 hours lecture, 1 hour lab)

Overall Course Objectives

Upon completion of this course, the student will be able to:

1. Plan a TCP/IP physical and logical network.
2. Plan and troubleshoot a routing strategy.
3. Plan a Dynamic Host Configuration Protocol (DHCP) strategy.
4. Optimize and troubleshoot DHCP.
5. Plan a Domain Name System (DNS) strategy.
6. Optimize and troubleshoot DNS.
7. Plan and optimize Windows Internet Naming Service (WINS).
8. Plan, optimize, and troubleshoot IPsec network access.
9. Troubleshoot network access.

Major Topics

- I. Windows Server 2003 Network Infrastructure Planning, Tools, and Documentation
- II. Planning and Optimizing a TCP/IP Physical and Logical Network
- III. Planning and Troubleshooting Routing and Switching
- IV. Planning, Optimizing, and Troubleshooting Dynamic Host Configuration Protocol (DHCP)
- V. Planning a Domain Name System (DNS) Strategy
- VI. Optimizing and Troubleshooting DNS
- VII. Planning and Optimizing Windows Internet Naming Service (WINS)
- VIII. Planning and Troubleshooting IPsec
- IX. Planning Network Access
- X. Troubleshooting Network Access
- XI. Planning a Windows Server 2003 Network Infrastructure

About Certification Curriculum at HCC

When a student takes a certification course at HCC, that student usually receives more instruction time than they would receive in other formats. Therefore, while taking certification courses at HCC, the student may expect not only instruction from certification materials but additional academic and practical exercises and course work to better equip the student not only for the corresponding certification exam but for eventual utilization in their professional endeavors.

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following: two quizzes or exams and one lab activity.

Other Course Information

This course is a Network Administration core course. This course is also intended for students who wish to become a Microsoft Certified Systems Engineer on Windows Server 2003. It will provide the needed foundation to pass Microsoft Certification Exam 70-293.