

# Course Outline

## MSFT-235

### Designing Security for a Microsoft Windows 2000 Network

3 Semester Hours

## HOWARD COMMUNITY COLLEGE

### Description

This course will give students the skills required to analyze the business requirements for security and design a security solution that meets business requirements. Security includes: Controlling access to resources, auditing access to resources, authentication, and encryption. Prerequisite: MSFT-215 or MSFT-156 (3 hours lecture, 1 hour lab)

### Overall Course Objectives

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

1. Evaluate a company's existing and planned technical environment.
2. Analyze the impact of the security design on the existing and planned technical environment.
3. Design a security baseline for a Windows 2000 network that includes domain controllers, operations masters, application servers, file and print servers, RAS servers, desktop computers, portable computers, and kiosks.
4. Identify the required level of security for each resource.
5. Design an audit policy.
6. Design a delegation of authority strategy.
7. Design the placement and inheritance of security policies for sites, domains, and organizational units.
8. Design an Encrypting File System strategy.
9. Design an authentication strategy.
10. Design a security group strategy.
11. Design a Public Key Infrastructure.
12. Design Windows 2000 network services security.
13. Provide secure access to public networks from a private network.
14. Provide external users with secure access to private network resources.
15. Provide secure access between private networks.
16. Design Windows 2000 security for remote access users.
17. Design an SMB-signing solution.
18. Design an IPSec solution.

## **Major Topics**

- I. Analyzing Business Requirements
- II. Analyzing Technical Requirements
- III. Analyzing Security Requirements
- IV. Designing a Windows 2000 Security Solution
- V. Designing a Security Solution for Access Between Networks
- VI. Designing Security for Communication Channels

## **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 2000.

REVISED: 1/2000