

# **COURSE OUTLINE**

## **CKPT 220**

### **Management II of the Virtual Private Network (VPN)-1 and FireWall-1 - NG**

3 Semester Hours

## **HOWARD COMMUNITY COLLEGE**

### **Description**

This course provides the knowledge required by system administrators, security managers and network engineers implementing Check Point VPN-1/FireWall-1 for VPN deployment. This course provides advanced training on VPN-1/FireWall-1 NG and delivers in-depth information on VPN and encryption technologies. This hands-on course provides the skills necessary to set up a site-to-site VPN and roll out a remote access VPN with either VPN-1 SecureClient or VPN-1 SecuRemote. It is intended to prepare students to take the Check Point Certified Security Expert (CCSE) NG certification exam number 156-310. Prerequisite: CKPT-210 or equivalent knowledge or experience.

### **Overall Course Objectives**

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

- Install and configure VPN-1/FireWall-1 for enterprise VPN deployment.
- Configure and deploy VPN-1 SecuRemote and VPN-1 SecureClient for remote access VPNs.
- Set up VPN desktop policies for VPN-1 SecureClient and use Security Configuration Verification to ensure VPN client security.
- Successfully employ VPN-1 SecureClient packaging tool to attain easy software configuration and deployment.
- Employ digital certificates to establish trust relationships in VPN environments.
- Use the following general VPN-1/FireWall-1 security functions:
  - SYNDefender to protect against denial of service (Dos) attacks
  - Content security options, including URL filtering

### **Major Topics**

- Module 1: Windows NT VPN-1/FireWall-1 NG Installation and Set Up
- Module 2: Solaris VPN-1/FireWall-1 NG Installation and Set Up
- Module 3: Tracking and Alerts
- Module 4: Load Balancing
- Module 5: Content Security and Content Vectoring Protocol

- Module 6: SYNDefender
- Module 7: Encryption and Virtual Private Networks (VPNs)
- Module 8: Certificate Authorities
- Module 9: Implementing IKE Encryption
- Module 10: Implementing FWZ Encryption
- Module 11: VPN-1 SecuRemote and SecureClient
- Module 12: Policy Server

### **Course Requirements**

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

### **Other Course Information**

This course is intended for students who wish to become a Check Point Certified Security Expert (CCSE) NG.