IP Networking for Security: Network Administration and Security Course Outline
Course Time: 1 hour

Course Description
In this module, we will discuss the important role network administrators play in maintaining a network, as well as security concerns, sources of threats to a network and the security measures employed to protect the network.

After completing this module, you should be able to do the following:

- Define the role of a network administrator,
- Recognize common security threats to a computer network,
- Understand the various security measures commonly used to thwart attacks and,
- Assist in implementing the necessary precautions to protect the network as well as the devices and data that reside on it.

Course Outline

- Network Administrators
  - Role
    - Maintaining Network performance
    - Installing and Configuring New Hardware and Software
    - Performing Backup Operations
    - Adding/removing/updating user account information
    - Troubleshooting Problems
    - Maintaining Network Security
  - Security Concerns
    - Malicious Insiders
    - Hacking
    - Spoofing
    - Denial of Service Attacks
    - Phishing
    - Worms, Virus and Malware
  - Sources of Threats
    - Email
    - Wireless Access Points
    - Cloud Computing
    - Remote access by employees/contractors
    - Smart Phone Connectivity
    - Laptops
    - USB Drives/Optical Media
    - USB peripherals
    - Hackers
    - Lack of Employee Alertness to Security Threats
  - Security Measures
  - Firewalls
    - Hardware
    - Software
  - Virus protection software
  - Secure Infrastructure