

# Cyber Security

**Length:** 3 days

**Summary:** Our Cyber Security course is a three-day introduction to networking basics, cybercrime and security concepts. Our instructor-led experience presents basic security procedures and challenges that arise in the workplace, and includes discussions of the various security threats and attacks to which today's computer users are vulnerable. The student will also learn how to address incident response and how to restrict site access, identify secure websites and establish security for a wireless network access point. Internet safety is a focus of the delivery, including topics such as transacting business, communicating via instant messaging, and using portable, wireless devices. This course explores information security vulnerabilities and how to approach cyber security as a complex system.

- Basic terms of cyber security
- Securing the system with firewalls and enterprise architecture
- Asses risks and handling incidents

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## Course Content

### SECURITY FOUNDATIONS

- Basics and Terms of Security
- Overview of Security and Cyber Crime Today
- Functionality and Ease of Use
- Security Myths

### BASIC PROCEDURES FOR SECURITY

- Overview of Procedures
- Hardening System
- Disabling Services
- Strong Passwords
- Antivirus and Firewalls
- Guest Accounts

### DESKTOP SECURITY

- File Sharing
- Folder Permissions
- Transferring and Downloading Files
- Backup and Restoration
- File Encryption and Decryption
- Task Manager
- Processes and Applications

### SECURE WINDOWS ADMINISTRATION

- Event Viewer
- Log Reading and Auditing
- Windows Registry
- Ports
- Internal Commands

### IDENTIFYING SECURITY THREATS AND ATTACKS

- Phishing Attack Detection
- Security Threats and Attacks
- Viruses, Trojan Horses and Worms
- Spyware and Adware
- Keylogger
- Social Engineering
- DoS (Denial of Service) Attack
- Spamming
- Port Scanning and Password Cracking
- Basic Security Measures

### INTERNET ACCESS SECURITY

- Browser Settings
  - Secure Websites
  - Internet Content Configuration
  - Understanding Cookies
  - P2P Network Security
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**WORKING ON THE INTERNET  
SECURELY**

- Security Precepts
- Encryption
- Digital Certificates
- Email and File Transfers
- Online Payments
- Instant Messaging and File Sharing
- Dial-In Networks
- Portable and Wireless Devices
- Media Files and Third Party Software

**INCIDENT RESPONSE**

- Trojan and Virus Attacks
  - Home Page Settings
  - Registry Corruption
  - CD/DVD Runs Automatically
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