

## **Certified Ethical Hacking Certified Ethical Hacker Exam Preparation**

### **Course Description**

This continuing education course is designed for prospective or current professionals in the information assurance or information security career fields and provides instruction on the objectives included in the Certified Ethical Hacker (CEH) certification exam. Topics include footprinting and reconnaissance, port scanning and enumeration, system hacking, web server and web application hacking and malware.

### **Course Objectives**

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

- Explain the basics of system hacking;
- Analyze basic concepts of footprint and reconnaissance;
- Demonstrate use of hacking tools to assess the security posture of a system;
- Identify the mechanisms and techniques used to defend systems against cyber-attacks.

### **Course Outline**

- I. Network Fundamentals and Theory
  - A. Bounded and unbounded network media
  - B. TCP/IP addressing, data delivery and services
  - C. WAN infrastructure
  - D. Cloud and virtualization technologies
- II. Network Security
  - A. Introduction and basics
  - B. Preventing security breaches
  - C. Responding to security incidents
  - D. Basic forensic concepts
- III. Troubleshooting Network Issues
  - A. Models and utilities
  - B. Common connectivity issues
  - C. Security configuration issues
  - D. Hardware troubleshooting tools
- IV. Industry Standards and Practices
  - A. Network and security policies
  - B. Standard business documents
  - C. Safety practices
  - D. Emergency procedures

Training: 40 hours