

## Course Specifications

### CEH Certified Ethical Hacking and Countermeasures v.6.1

**Course number:**

**Course length:** 5 days

## Registration:

**Micro Market Business Centre**  
700 Progress Avenue  
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## CEH Certified Ethical Hacking and Countermeasures v.6.1

### Course Description

Computers around the world are systematically being victimized by rampant hacking. This hacking is not only widespread, but is being executed so flawlessly that the attackers compromise a system, steal everything of value and completely erase their tracks within 20 minutes. The goal of the ethical hacker is to help the organization take preemptive measures against malicious attacks by attacking the system himself; all the while staying within legal limits. This philosophy stems from the proven practice of trying to catch a thief, by thinking like a thief. As technology advances and organization depend on technology increasingly, information assets have evolved into critical components of survival. The CEH Program certifies individuals in the specific network security discipline of Ethical Hacking from a vendor-neutral perspective. The Certified Ethical Hacker certification will fortify the application knowledge of security officers, auditors, security professionals, site administrators, and anyone who is concerned about the integrity of the network infrastructure. A Certified Ethical Hacker is a skilled professional who understands and knows how to look for the weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker.

### Course Content

#### Lesson 1: Introduction to Ethical Hacking

- Topic 1A: Problem Definition - Why Security?
- Topic 1B: Essential Terminologies
- Topic 1C: Elements of Security
- Topic 1D: The Security, Functionality and Ease of Use Triangle
- Topic 1E: Case Study
- Topic 1F: What Does a Malicious Hacker Do?
- Topic 1G: Types of Hacker Attacks
- Topic 1H: Hacktivism
- Topic 1I: Hacker Classes
- Topic 1J: Security News: Suicide Hacker
- Topic 1K: Ethical Hacker Classes
- Topic 1L: What Do Ethical Hackers Do?
- Topic 1M: Can Hacking be Ethical?
- Topic 1N: How to Become an Ethical Hacker
- Topic 1O: Skills of an Ethical Hacker
- Topic 1P: What is Vulnerability Research?
- Topic 1Q: How to Conduct Ethical Hacking

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Topic 1R: How Do They Go About It?  
Topic 1S: Approaches to Ethical Hacking  
Topic 1T: Ethical Hacking Testing  
Topic 1U: Ethical Hacking Deliverables  
Topic 1V: Computer Crimes and Implications

## Lesson 2: Hacking Laws

Topic 2A: <http://www.usdoj.gov>  
Topic 2B: <http://www.gob.mx/>  
Topic 2C: <http://www.jf.gov.br/>  
Topic 2D: <http://canada.justice.gc.ca/en/>  
Topic 2E: <http://www.opsi.gov.uk>  
Topic 2F: <http://europa.eu/>  
Topic 2G: European Laws  
Topic 2H: Belgium Laws  
Topic 2I: Denmark Laws  
Topic 2J: France Laws  
Topic 2K: German Laws  
Topic 2L: Greece Laws  
Topic 2M: Italian Laws  
Topic 2N: Netherlands Laws  
Topic 2O: Norway  
Topic 2P: Switzerland  
Topic 2Q: <http://www.australia.gov.au/>  
Topic 2R: The Cybercrime Act 2001  
Topic 2S: The Information Technology Act  
Topic 2T: Japan's Cyber Laws  
Topic 2U: Singapore's Cyber Laws  
Topic 2V: Act on Promotion of Information and Communications Network Utilization and Information Protection  
Topic 2W: The Computer Crimes Act 1997  
Topic 2X: <http://www.legislation.gov.hk/>  
Topic 2Y: Telecommunication Law

## Lesson 3: Footprinting

Topic 3A: Revisiting Reconnaissance  
Topic 3B: Defining Footprinting  
Topic 3C: Why is Footprinting Necessary?  
Topic 3D: Areas and Information which Attackers Seek  
Topic 3E: Information Gathering Methodology  
Topic 3F: Footprinting Tools  
Topic 3G: E-Mail Spiders  
Topic 3H: How to Create Fake Website

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Topic 3I: Real and Fake Website  
Topic 3J: Tool: Reamweaver  
Topic 3K: Mirrored Fake Website  
Topic 3L: Faking Websites using Man-in-the-Middle Phishing Kit  
Topic 3M: Benefits to Fraudster  
Topic 3N: Steps to Perform Footprinting

### Lesson 4: Google Hacking

Topic 4A: What is Google Hacking?  
Topic 4B: What a Hacker Can do with Vulnerable Site  
Topic 4C: Anonymity with Caches  
Topic 4D: Using Google as a Proxy Server  
Topic 4E: Directory Listings  
Topic 4F: Going Out on a Limb: Traversal Techniques  
Topic 4G: Extension Walking  
Topic 4H: Site Operator  
Topic 4I: intitle:index.of  
Topic 4J: error | warning  
Topic 4K: login | logon  
Topic 4L: username | userid | employee.ID | "your username is"  
Topic 4M: password | passcode | "your password is"  
Topic 4N: admin | administrator  
Topic 4O: -ext:html -ext:htm -ext:shtml -ext:asp -ext:php  
Topic 4P: inurl:temp | inurl:tmp | inurl:backup | inurl:bak  
Topic 4Q: intranet | help.desk  
Topic 4R: Locating Public Exploit Sites  
Topic 4S: Locating Vulnerable Targets  
Topic 4T: Finding IIS 5.0 Servers  
Topic 4U: Web Server Software Error Messages  
Topic 4V: Application Software Error Messages  
Topic 4W: Default Pages  
Topic 4X: Searching for Passwords  
Topic 4Y: Google Hacking Database (GHDB)  
Topic 4Z: SiteDigger Tool  
Topic 4AA: Gooscan  
Topic 4AB: Goolink Scanner  
Topic 4AC: Goolag Scanner  
Topic 4AD: Tool: Google Hacks  
Topic 4AE: Google Hack Honeygot  
Topic 4AF: Google Protocol  
Topic 4AG: Google Cartography

### Lesson 5: Scanning

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Topic 5A: Scanning: Definition  
Topic 5B: Types of Scanning  
Topic 5C: Objectives of Scanning  
Topic 5D: CEH Scanning Methodology  
Topic 5E: War Dialer Technique  
Topic 5F: Banner Grabbing  
Topic 5G: Vulnerability Scanning  
Topic 5H: Draw Network Diagrams of Vulnerable Hosts  
Topic 5I: Preparing Proxies  
Topic 5J: Scanning Countermeasures  
Topic 5K: Tool: SentryPC

### Lesson 6: Enumeration

Topic 6A: Overview of System Hacking Cycle  
Topic 6B: What is Enumeration?  
Topic 6C: Techniques for Enumeration  
Topic 6D: NetBIOS Null Sessions  
Topic 6E: PS Tools  
Topic 6F: Network Management Protocol (SNMP) Enumeration  
Topic 6G: LDAP Enumeration  
Topic 6H: NTP Enumeration  
Topic 6I: SMTP Enumeration  
Topic 6J: Web Enumeration  
Topic 6K: Winfingerprint  
Topic 6L: How To Enumerate Web Application Directories in IIS Using DirectoryServices  
Topic 6M: IP Tools Scanner  
Topic 6N: Enumerate Systems Using Default Password  
Topic 6O: Tools  
Topic 6P: Steps to Perform Enumeration

### Lesson 7: System Hacking

Topic 7A: Part 1- Cracking Password  
Topic 7B: Part 2 - Escalating Privileges  
Topic 7C: Part 3 - Executing Applications  
Topic 7D: Part 4 - Hiding Files  
Topic 7E: Part 5 - Covering Tracks

### Lesson 8: Trojans and Backdoors

Topic 8A: Introduction  
Topic 8B: What is a Trojan?  
Topic 8C: Indications of a Trojan Attack

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Topic 8D: Ports Used by Trojans  
Topic 8E: Classic Trojans  
Topic 8F: Classic Trojans Found in the Wild  
Topic 8G: Stealth Trojans  
Topic 8H: Reverse Connecting Trojans  
Topic 8I: Miscellaneous Trojans  
Topic 8J: How to Detect Trojans  
Topic 8K: Anti-Trojan Software  
Topic 8L: Evading Anti-Virus Techniques  
Topic 8M: Sample Code for Trojan Client/Server  
Topic 8N: Evading Anti-Trojan/Anti-Virus using Stealth Tools  
Topic 8O: Backdoor Countermeasures  
Topic 8P: Tripwire  
Topic 8Q: System File Verification  
Topic 8R: MD5 Checksum.exe  
Topic 8S: Microsoft Windows Defender  
Topic 8T: How to Avoid a Trojan Infection

### Lesson 9: Viruses and Worms

Topic 9A: Introduction to Virus  
Topic 9B: Virus History  
Topic 9C: Characteristics of Virus  
Topic 9D: Working of Virus  
Topic 9E: Why People Create Computer Viruses  
Topic 9F: Symptoms of a Virus-like Attack  
Topic 9G: Virus Hoaxes  
Topic 9H: Chain Letters  
Topic 9I: Worms  
Topic 9J: How is a Worm Different from a Virus?  
Topic 9K: Indications of a Virus Attack  
Topic 9L: Virus Damage  
Topic 9M: Stages of Virus Life  
Topic 9N: Types of Viruses  
Topic 9O: Famous Viruses and Worms  
Topic 9P: Latest Viruses  
Topic 9Q: Writing Virus Programs  
Topic 9R: Virus Detection Methods  
Topic 9S: Anti-Virus Software  
Topic 9T: Anti-Virus Software  
Topic 9U: Popular Anti-Virus Packages  
Topic 9V: Virus Databases  
Topic 9W: Snopes.com

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## Lesson 10: Sniffers

- Topic 10A: Definition - Sniffing
- Topic 10B: Types of Sniffing
- Topic 10C: IP-based Sniffing
- Topic 10D: Wiretap
- Topic 10E: Protocols Vulnerable to Sniffing
- Topic 10F: What is Address Resolution Protocol (ARP)?
- Topic 10G: Lawful Intercept
- Topic 10H: Types of Sniffing Attack
- Topic 10I: DNS Poisoning Techniques
- Topic 10J: Interactive TCP Relay
- Topic 10K: Interactive Replay Attacks
- Topic 10L: ARP Spoofing Tools
- Topic 10M: Tools for MAC Flooding
- Topic 10N: Sniffing Tools
- Topic 10O: Linux Sniffing Tools
- Topic 10P: Hardware Protocol Analyzers
- Topic 10Q: Detecting Sniffing

## Lesson 11: Social Engineering

- Topic 11A: What is Social Engineering?
- Topic 11B: Human Weakness
- Topic 11C: "Rebecca" and "Jessica"
- Topic 11D: Office Workers
- Topic 11E: Types of Social Engineering
- Topic 11F: Social Engineering Threats and Defenses
- Topic 11G: Factors That Make Companies Vulnerable to Attacks
- Topic 11H: Why is Social Engineering Effective
- Topic 11I: Warning Signs of an Attack
- Topic 11J: Tool : Netcraft Anti-Phishing Toolbar
- Topic 11K: Phases in a Social Engineering Attack
- Topic 11L: Behaviors Vulnerable to Attacks
- Topic 11M: Impact on the Organization
- Topic 11N: Countermeasures
- Topic 11O: Policies and Procedures
- Topic 11P: Security Policies - Checklist
- Topic 11Q: Impersonating Orkut, Facebook, MySpace
- Topic 11R: How to Steal Identity
- Topic 11S: Comparison
- Topic 11T: Original
- Topic 11U: Identity Theft
- Topic 11V: <http://www.consumer.gov/idtheft/>

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## Lesson 12: Phishing

- Topic 12A: Phishing
- Topic 12B: Introduction
- Topic 12C: Reasons for Successful Phishing
- Topic 12D: Phishing Methods
- Topic 12E: Process of Phishing
- Topic 12F: Types of Phishing Attacks
- Topic 12G: Phishing Statistics: March 2008
- Topic 12H: Anti-Phishing
- Topic 12I: Anti-Phishing Tools

## Lesson 13: Hacking Email Accounts

- Topic 13A: Introduction
- Topic 13B: Vulnerabilities
- Topic 13C: Email Hacking Tools
- Topic 13D: Securing Email Accounts

## Lesson 14: Denial-of-Service

- Topic 14A: Real World Scenario of DoS Attacks
- Topic 14B: What are Denial-of-Service Attacks
- Topic 14C: Goal of DoS
- Topic 14D: Impact and the Modes of Attack
- Topic 14E: Types of Attacks
- Topic 14F: DoS Attack Classification
- Topic 14G: Bot (Derived from the Word RoBOT)
- Topic 14H: What is DDoS Attack?
- Topic 14I: DDoS Tools
- Topic 14J: Countermeasures for Reflected DoS
- Topic 14K: DDoS Countermeasures
- Topic 14L: Taxonomy of DDoS Countermeasures
- Topic 14M: Preventing Secondary Victims
- Topic 14N: Detect and Neutralize Handlers
- Topic 14O: Detect Potential Attacks
- Topic 14P: DoSHTTP Tool
- Topic 14Q: Mitigate or Stop the Effects of DDoS Attacks
- Topic 14R: Deflect Attacks
- Topic 14S: Post-attack Forensics
- Topic 14T: Packet Traceback

## Lesson 15: Session Hijacking

- Topic 15A: What is Session Hijacking?

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Topic 15B: Understanding Session Hijacking  
Topic 15C: Spoofing vs. Hijacking  
Topic 15D: Steps in Session Hijacking  
Topic 15E: Types of Session Hijacking  
Topic 15F: Session Hijacking Levels  
Topic 15G: Network Level Hijacking  
Topic 15H: The 3-Way Handshake  
Topic 15I: TCP Concepts 3-Way Handshake  
Topic 15J: Sequence Numbers  
Topic 15K: TCP/IP Hijacking  
Topic 15L: IP Spoofing: Source Routed Packets  
Topic 15M: RST Hijacking  
Topic 15N: Blind Hijacking  
Topic 15O: Man in the Middle Attack Using Packet Sniffer  
Topic 15P: UDP Hijacking  
Topic 15Q: Application Level Hijacking  
Topic 15R: Programs that Performs Session Hacking  
Topic 15S: Dangers Posed by Hijacking  
Topic 15T: Protecting against Session Hijacking  
Topic 15U: Countermeasure: IPSec

### Lesson 16: Hacking Web Servers

Topic 16A: How are Web Servers Compromised?  
Topic 16B: Web Server Defacement  
Topic 16C: Attacks Against IIS  
Topic 16D: Patch Management  
Topic 16E: Vulnerability Scanners  
Topic 16F: Countermeasures  
Topic 16G: File System Traversal Countermeasures  
Topic 16H: Increasing Web Server Security  
Topic 16I: Web Server Protection Checklist

### Lesson 17: Web Application Vulnerabilities

Topic 17A: Web Application  
Topic 17B: Web Application Hacking  
Topic 17C: Anatomy of an Attack  
Topic 17D: Web Application Threats  
Topic 17E: Cross-Site Scripting/XSS Flaws  
Topic 17F: SQL Injection  
Topic 17G: Command Injection Flaws  
Topic 17H: Cookie/Session Poisoning  
Topic 17I: Parameter/Form Tampering  
Topic 17J: Hidden Field at JuggyBoy.com

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Topic 17K: Buffer Overflow  
Topic 17L: Directory Traversal/Forceful Browsing  
Topic 17M: Cryptographic Interception  
Topic 17N: Cookie Snooping  
Topic 17O: Authentication Hijacking  
Topic 17P: Log Tampering  
Topic 17Q: Error Message Interception  
Topic 17R: Attack Obfuscation  
Topic 17S: Platform Exploits  
Topic 17T: DMZ Protocol Attacks  
Topic 17U: DMZ  
Topic 17V: Security Management Exploits  
Topic 17W: TCP Fragmentation  
Topic 17X: Hacking Tools

### Lesson 18: Web-Based Password Cracking Techniques

Topic 18A: Authentication  
Topic 18B: Password Cracking  
Topic 18C: Password Cracking Tools  
Topic 18D: Countermeasures

### Lesson 19: SQL Injection

Topic 19A: SQL Injection: Introduction  
Topic 19B: SQL Injection Tools  
Topic 19C: Blind SQL Injection  
Topic 19D: SQL Injection Countermeasures  
Topic 19E: SQL Injection Blocking Tool: SQL Block  
Topic 19F: Acunetix Web Vulnerability Scanner

### Lesson 20: Hacking Wireless Networks

Topic 20A: Introduction to Wireless Networking  
Topic 20B: Wireless Standards  
Topic 20C: Wireless Concepts  
Topic 20D: Wireless Devices  
Topic 20E: WEP  
Topic 20F: WPA  
Topic 20G: TKIP and LEAP  
Topic 20H: Hacking Methods  
Topic 20I: Cracking WEP  
Topic 20J: Rogue Access Point  
Topic 20K: Scanning Tools  
Topic 20L: Sniffing Tools

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Topic 20M: Wireless Security Tools

### Lesson 21: Physical Security

Topic 21A: Security Facts  
Topic 21B: Understanding Physical Security  
Topic 21C: Physical Security  
Topic 21D: What Is the Need for Physical Security?  
Topic 21E: Who Is Accountable for Physical Security?  
Topic 21F: Factors Affecting Physical Security  
Topic 21G: Physical Security Checklist  
Topic 21H: Information Security  
Topic 21I: EPS (Electronic Physical Security)  
Topic 21J: Wireless Security  
Topic 21K: Laptop Theft Statistics for 2007  
Topic 21L: Statistics for Stolen and Recovered Laptops  
Topic 21M: Laptop Theft  
Topic 21N: Laptop Theft: Data Under Loss  
Topic 21O: Laptop Security Tools  
Topic 21P: Laptop Tracker - XTool Computer Tracker  
Topic 21Q: Tools to Locate Stolen Laptops  
Topic 21R: Stop's Unique, Tamper-proof Patented Plate  
Topic 21S: Tool: TrueCrypt  
Topic 21T: Laptop Security Countermeasures  
Topic 21U: Mantrap  
Topic 21V: TEMPEST  
Topic 21W: Challenges in Ensuring Physical Security  
Topic 21X: Spyware Technologies  
Topic 21Y: Spying Devices  
Topic 21Z: Physical Security: Lock Down USB Ports  
Topic 21AA: Tool: DeviceLock  
Topic 21AB: Blocking the Use of USB Storage Devices  
Topic 21AC: Track Stick GPS Tracking Device

### Lesson 22: Linux Hacking

Topic 22A: Why Linux?  
Topic 22B: Linux Distributions  
Topic 22C: Linux - Basics  
Topic 22D: Linux Live CD-ROMs  
Topic 22E: Basic Commands of Linux: Files & Directories  
Topic 22F: Directories in Linux  
Topic 22G: Installing, Configuring, and Compiling Linux Kernel  
Topic 22H: How to Install a Kernel Patch  
Topic 22I: Compiling Programs in Linux

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Topic 22J: GCC Commands  
Topic 22K: Make Files  
Topic 22L: Make Install Command  
Topic 22M: Linux Vulnerabilities  
Topic 22N: Chrooting  
Topic 22O: Why is Linux Hacked?  
Topic 22P: How to Apply Patches to Vulnerable Programs  
Topic 22Q: Scanning Networks  
Topic 22R: Nmap in Linux  
Topic 22S: Scanning Tool: Nessus  
Topic 22T: Port Scan Detection Tools  
Topic 22U: Password Cracking in Linux: John the Ripper  
Topic 22V: Firewall in Linux: IPTables  
Topic 22W: IPTables Command  
Topic 22X: Basic Linux Operating System Defense  
Topic 22Y: SARA (Security Auditor's Research Assistant)  
Topic 22Z: Linux Tool: Netcat  
Topic 22AA: Linux Tool: tcpdump  
Topic 22AB: Linux Tool: Snort  
Topic 22AC: Linux Tool: SAINT  
Topic 22AD: Linux Tool: Wireshark  
Topic 22AE: Linux Tool: Abacus Port Sentry  
Topic 22AF: Linux Tool: DSniff Collection  
Topic 22AG: Linux Tool: Hping2  
Topic 22AH: Linux Tool: Sniffit  
Topic 22AI: Linux Tool: Nemesis  
Topic 22AJ: Linux Tool: LSOF  
Topic 22AK: Linux Tool: IPTraf  
Topic 22AL: Linux Tool: LIDS  
Topic 22AM: Hacking Tool: Hunt  
Topic 22AN: Tool: TCP Wrappers  
Topic 22AO: Linux Loadable Kernel Modules  
Topic 22AP: Hacking Tool: Linux Rootkits  
Topic 22AQ: Rootkits: Knark & Torn  
Topic 22AR: Rootkits: Tuxit, Adore, Ramen  
Topic 22AS: Rootkit: Beastkit  
Topic 22AT: Rootkit Countermeasures  
Topic 22AU: 'chkrootkit' detects the following Rootkits  
Topic 22AV: Linux Tools: Application Security  
Topic 22AW: Advanced Intrusion Detection Environment (AIDE)  
Topic 22AX: Linux Tools: Security Testing Tools  
Topic 22AY: Linux Tools: Encryption  
Topic 22AZ: Linux Tools: Log and Traffic Monitors  
Topic 22BA: Linux Security Auditing Tool (LSAT)  
Topic 22BB: Linux Security Countermeasures  
Topic 22BC: Steps for Hardening Linux

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### Lesson 23: Evading IDS, Firewalls and Detecting Honey Pots

Topic 23A: Introduction to Intrusion Detection System

Topic 23B: Terminologies

Topic 23C: Intrusion Detection System (IDS)

Topic 23D: Intrusion Prevention System

Topic 23E: What is a Firewall?

Topic 23F: Common Tool for Testing Firewall and IDS

Topic 23G: What is Honeypot?

Topic 23H: Tools to Detect Honeypots

Topic 23I: What to Do When Hacked

### Lesson 24: Buffer Overflows

Topic 24A: Buffer Overflow Concepts

Topic 24B: Attacking a Real Program

Topic 24C: NOPs

Topic 24D: How to Mutate a Buffer Overflow Exploit

Topic 24E: Once the Stack is Smashed

Topic 24F: Examples of Buffer Overflow

Topic 24G: Tools

Topic 24H: How to Detect Buffer Overflows in a Program

Topic 24I: Defense Against Buffer Overflows

### Lesson 25: Cryptography

Topic 25A: Public-key Cryptography

Topic 25B: Working of Encryption

Topic 25C: RSA (Rivest Shamir Adleman)

Topic 25D: RC4, RC5, RC6, Blowfish

Topic 25E: Algorithms and Security

Topic 25F: Brute-Force Attack

Topic 25G: RSA Attacks

Topic 25H: Message Digest Functions

Topic 25I: SHA (Secure Hash Algorithm)

Topic 25J: SSL (Secure Sockets Layer)

Topic 25K: What is SSH?

Topic 25L: Government Access to Keys (GAK)

Topic 25M: RSA Challenge

Topic 25N: distributed.net

Topic 25O: Code Breaking: Methodologies

Topic 25P: Cryptography Attacks

Topic 25Q: Disk Encryption

Topic 25R: Magic Lantern

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Topic 25S: WEP/CRACK  
Topic 25T: Cracking S/MIME Encryption Using Idle CPU Time  
Topic 25U: Cryptography Tools

### Lesson 26: Penetration Testing

Topic 26A: Introduction to Penetration Testing (PT)  
Topic 26B: Categories of Security Assessments  
Topic 26C: Vulnerability Assessment  
Topic 26D: Limitations of Vulnerability Assessment  
Topic 26E: Testing  
Topic 26F: Penetration Testing Tools  
Topic 26G: Threat  
Topic 26H: Other Tools Useful in Pen-Test  
Topic 26I: Phases of Penetration Testing  
Topic 26J: Pre-attack Phase  
Topic 26K: Best Practices  
Topic 26L: Results That Can be Expected  
Topic 26M: Passive Reconnaissance  
Topic 26N: Active Reconnaissance  
Topic 26O: Attack Phase  
Topic 26P: Post Attack Phase and Activities  
Topic 26Q: Penetration Testing Deliverables Templates

### Lesson 27: Macintosh Hacking

Topic 27A: Introduction to MAC OS  
Topic 27B: Vulnerabilities in MAC  
Topic 27C: How a Malformed Installer Package Can Crack Mac OS X  
Topic 27D: Worm and Viruses in MAC  
Topic 27E: Anti-Viruses in MAC  
Topic 27F: Mac Security Tools  
Topic 27G: Countermeasures

### Lesson 28: Hacking Routers, cable Modems and Firewalls

Topic 28A: Network Devices  
Topic 28B: Hacking Routers  
Topic 28C: Exploiting Vulnerabilities in Cisco IOS  
Topic 28D: Brute-Forcing Services  
Topic 28E: Attacking Router  
Topic 28F: Common Router, Switch, or Firewall Reconfigurations by Attackers  
Topic 28G: Pen-Testing Tools  
Topic 28H: Capturing Network Traffic

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Topic 28I: Cable Modem Hacking  
Topic 28J: [www.bypassfirewalls.net](http://www.bypassfirewalls.net)  
Topic 28K: Waldo Beta 0.7 (b)

### Lesson 29: Hacking Mobile Phones, PDA and Handheld Devices

Topic 29A: Different OS in Mobile Phone  
Topic 29B: Different OS Structure in Mobile Phone  
Topic 29C: Evolution of Mobile Threat  
Topic 29D: Threats  
Topic 29E: What Can a Hacker Do?  
Topic 29F: Vulnerabilities in Different Mobile Phones  
Topic 29G: Malware  
Topic 29H: Spyware  
Topic 29I: Blackberry  
Topic 29J: PDA  
Topic 29K: iPod  
Topic 29L: Mobile: Is It a Breach to Enterprise Security?  
Topic 29M: Trojan and Viruses  
Topic 29N: Antivirus  
Topic 29O: Security Tools  
Topic 29P: Defending Cell Phones and PDAs Against Attack  
Topic 29Q: Mobile Phone Security Tips

### Lesson 30: Bluetooth Hacking

Topic 30A: Bluetooth Introduction  
Topic 30B: Security Issues in Bluetooth  
Topic 30C: Attacks Against Bluetooth  
Topic 30D: Bluetooth Hacking Tools  
Topic 30E: Bluetooth Viruses and Worms  
Topic 30F: Bluetooth Security Tools  
Topic 30G: Countermeasures

### Lesson 31: VoIP Hacking

Topic 31A: What is VoIP?  
Topic 31B: VoIP Hacking Steps  
Topic 31C: Footprinting  
Topic 31D: Scanning  
Topic 31E: Enumeration  
Topic 31F: Steps to Exploit the Network  
Topic 31G: Covering Tracks

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## Lesson 32: RFID Hacking

Topic 32A: RFID - Definition  
Topic 32B: Components of RFID Systems  
Topic 32C: RFID Collisions  
Topic 32D: RFID Risks  
Topic 32E: RFID and Privacy Issues  
Topic 32F: Countermeasures  
Topic 32G: RFID Security and Privacy Threats  
Topic 32H: Protection Against RFID Attacks  
Topic 32I: RFID Guardian  
Topic 32J: RFID Malware  
Topic 32K: RFID Exploits  
Topic 32L: Vulnerabilities in RFID-enabled Credit Cards  
Topic 32M: RFID Hacking Tool: RFDump  
Topic 32N: RFID Security Controls  
Topic 32O: RFID Security

## Lesson 33: Spamming

Topic 33A: Introduction  
Topic 33B: Techniques Used by Spammers  
Topic 33C: How Spamming is Performed  
Topic 33D: Ways of Spamming  
Topic 33E: Spammer: Statistics  
Topic 33F: Worsen ISP: Statistics  
Topic 33G: Top Spam Effected Countries: Statistics  
Topic 33H: Types of Spam Attacks  
Topic 33I: Bulk Emailing Tools  
Topic 33J: Anti-Spam Techniques  
Topic 33K: Anti-Spamming Tools

## Lesson 34: Hacking USB Devices

Topic 34A: Introduction to USB Devices  
Topic 34B: Electrical Attack  
Topic 34C: Software Attack  
Topic 34D: USB Attack on Windows  
Topic 34E: Viruses and Worms  
Topic 34F: Hacking Tools  
Topic 34G: USB Security Tools  
Topic 34H: Countermeasures

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## Lesson 35: Hacking Database Servers

Topic 35A: Hacking Database Server: Introduction

Topic 35B: Hacking Oracle Database Server

Topic 35C: How SQL Server is Hacked

Topic 35D: Security Tools

Topic 35E: SQL Server Security Best Practices: Administrator Checklist

Topic 35F: SQL Server Security Best Practices: Developer Checklist

## Lesson 36: Cyber Warfare - Hacking, Al-Qaida and Terrorism

Topic 36A: Cyber Terrorism Over Internet

Topic 36B: Cyber-Warfare Attacks

Topic 36C: Muslim Doctors Planned US Terror Raids

Topic 36D: Net Attack

Topic 36E: Al-Qaeda

Topic 36F: Why Terrorists Use Cyber Techniques

Topic 36G: Cyber Support to Terrorist Operations

Topic 36H: Planning

Topic 36I: Recruitment

Topic 36J: Research

Topic 36K: Propaganda

Topic 36L: Cyber Threat to the Military

Topic 36M: Russia 'hired botnets' for Estonia Cyber-War

Topic 36N: NATO Threatens War with Russia

Topic 36O: Bush on Cyber War: 'a subject I can learn a lot about'

Topic 36P: E.U. Urged to Launch Coordinated Effort Against Cybercrime

Topic 36Q: Budget: Eye on Cyber-Terrorism Attacks

Topic 36R: Cyber Terror Threat is Growing, Says Reid

Topic 36S: Terror Web 2.0

Topic 36T: Table 1: How Websites Support Objectives of terrorist/Extremist Groups

Topic 36U: Electronic Jihad

Topic 36V: Electronic Jihad App Offers Cyber Terrorism for the Masses

Topic 36W: <http://internet-haganah.com/haganah/>

Topic 36X: Mujahedeen Secrets Encryption Program 2

## Lesson 37: Internet Content Filtering Techniques

Topic 37A: Introduction to Internet Filter

Topic 37B: Internet Content Filtering Tools

## Lesson 38: Privacy on the Internet

Topic 38A: Internet Privacy

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Topic 38B: Proxy Privacy  
Topic 38C: Email Privacy  
Topic 38D: Cookies  
Topic 38E: Examining Information in Cookies  
Topic 38F: How Internet Cookies Work  
Topic 38G: How Google Stores Personal Information  
Topic 38H: Google Privacy Policy  
Topic 38I: Web Browsers  
Topic 38J: Web Bugs  
Topic 38K: Downloading Freeware  
Topic 38L: Internet Relay Chat  
Topic 38M: Pros and Cons of Internet Relay Chat  
Topic 38N: Electronic Commerce  
Topic 38O: Internet Privacy Tools: Anonymizers  
Topic 38P: Internet Privacy Tools: Firewall Tools  
Topic 38Q: Internet Privacy Tools: Others  
Topic 38R: Best Practices  
Topic 38S: Counter Measures

### Lesson 39: Securing Laptop Computers

Topic 39A: Statistics for Stolen and Recovered Laptops  
Topic 39B: Statistics on Security  
Topic 39C: Percentage of Organizations Following the Security Measures  
Topic 39D: Laptop Threats  
Topic 39E: Laptop Theft  
Topic 39F: Fingerprint Reader  
Topic 39G: Protecting Laptops Through Face Recognition  
Topic 39H: Bluetooth in Laptops  
Topic 39I: Tools  
Topic 39J: Securing from Physical Laptop Thefts  
Topic 39K: Hardware Security for Laptops  
Topic 39L: Protecting the Sensitive Data  
Topic 39M: Preventing Laptop Communications from Wireless Threats  
Topic 39N: Protecting the Stolen Laptops from Being Used  
Topic 39O: Security Tips

### Lesson 40: Spying Technologies

Topic 40A: Spying  
Topic 40B: Motives of Spying  
Topic 40C: Spying Devices  
Topic 40D: Vendors Hosting Spy Devices  
Topic 40E: Spying Tools  
Topic 40F: Anti-Spying Tools

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## Lesson 41: Corporate Espionage- Hacking Using Insiders

Topic 41A: Introduction To Corporate Espionage  
Topic 41B: Information Corporate Spies Seek  
Topic 41C: Insider Threat  
Topic 41D: Different Categories of Insider Threat  
Topic 41E: Privileged Access  
Topic 41F: Driving Force Behind Insider Attack  
Topic 41G: Common Attacks Carried Out by Insiders  
Topic 41H: Techniques Used for Corporate Espionage  
Topic 41I: Process of Hacking  
Topic 41J: Former Forbes Employee Pleads Guilty  
Topic 41K: Former Employees Abet Stealing Trade Secrets  
Topic 41L: California Man Sentenced For Hacking  
Topic 41M: Federal Employee Sentenced for Hacking  
Topic 41N: Facts  
Topic 41O: Key Findings from U.S. Secret Service and CERT Coordination Center/SEI study on Insider Threat  
Topic 41P: Tools  
Topic 41Q: Countermeasures

## Lesson 42: Creating Security Policies

Topic 42A: Security Policies  
Topic 42B: Key Elements of Security Policy  
Topic 42C: Defining the Purpose and Goals of Security Policy  
Topic 42D: Role of Security Policy  
Topic 42E: Classification of Security Policy  
Topic 42F: Design of Security Policy  
Topic 42G: Contents of Security Policy  
Topic 42H: Configurations of Security Policy  
Topic 42I: Implementing Security Policies  
Topic 42J: Types of Security Policies  
Topic 42K: Policy Statements  
Topic 42L: E-mail Security Policy  
Topic 42M: Software Security Policy  
Topic 42N: Software License Policy  
Topic 42O: Points to Remember While Writing a Security Policy  
Topic 42P: Sample Policies

## Lesson 43: Software Piracy and Warez

Topic 43A: Software Activation: Introduction  
Topic 43B: Piracy

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Topic 43C: Software Copy Protection Backgrounders  
Topic 43D: Warez  
Topic 43E: Tool: Crypkey  
Topic 43F: Tool: EnTrial  
Topic 43G: EnTrial Tool: Distribution File  
Topic 43H: Tool: DF\_ProtectionKit  
Topic 43I: Tool: Crack Killer  
Topic 43J: Tool: Logic Protect  
Topic 43K: Tool: Software License Manager  
Topic 43L: Tool: Quick License Manager  
Topic 43M: Tool: WTM CD Protect

### Lesson 44: Hacking and Cheating Online Games

Topic 44A: Online Games  
Topic 44B: Basics of Game Hacking  
Topic 44C: Online Gaming Risks  
Topic 44D: Techniques used for Exploiting Online Games  
Topic 44E: Threats in Online Gaming  
Topic 44F: Stealing Online Games Passwords: Malwares  
Topic 44G: Social Engineering and Phishing  
Topic 44H: Example of Popular Game Exploits  
Topic 44I: Online Gaming Malware from 1997-2007  
Topic 44J: Best Practices for Secure Online Gaming  
Topic 44K: Tips for Secure Online Gaming

### Lesson 45: Hacking RSS and Atom

Topic 45A: Introduction  
Topic 45B: Areas Where RSS and Atom is Used  
Topic 45C: Building a Feed Aggregator  
Topic 45D: Monitoring the Server with Feeds  
Topic 45E: Tracking Changes in Open Source Projects  
Topic 45F: Risks by Zone  
Topic 45G: Reader Specific Risks  
Topic 45H: Utilizing the Web Feeds Vulnerabilities  
Topic 45I: Example for Attacker to Attack the Feeds  
Topic 45J: Tools

### Lesson 46: Hacking Web Browsers

Topic 46A: Introduction  
Topic 46B: How Web Browsers Work  
Topic 46C: How Web Browsers Access HTML Documents  
Topic 46D: Protocols for an URL

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Topic 46E: Hacking Firefox  
Topic 46F: Firefox Security  
Topic 46G: Hacking Internet Explorer  
Topic 46H: Internet Explorer Security  
Topic 46I: Hacking Opera  
Topic 46J: Security Features of Opera  
Topic 46K: Hacking Safari  
Topic 46L: Securing Safari  
Topic 46M: Hacking Netscape  
Topic 46N: Securing Netscape

### Lesson 47: Proxy Server Technologies

Topic 47A: Introduction: Proxy Server  
Topic 47B: Working of Proxy Server  
Topic 47C: Types of Proxy Server  
Topic 47D: Socks Proxy  
Topic 47E: Free Proxy Servers  
Topic 47F: Use of Proxies for Attack  
Topic 47G: Tools  
Topic 47H: How Does MultiProxy Work  
Topic 47I: TOR Proxy Chaining Software  
Topic 47J: AnalogX Proxy  
Topic 47K: NetProxy  
Topic 47L: Proxy+  
Topic 47M: ProxySwitcher Lite  
Topic 47N: Tool: JAP  
Topic 47O: Proxomitron  
Topic 47P: SSL Proxy Tool  
Topic 47Q: How to Run SSL Proxy

### Lesson 48: Data Loss Prevention

Topic 48A: Introduction: Data Loss  
Topic 48B: Causes of Data Loss  
Topic 48C: How to Prevent Data Loss  
Topic 48D: Impact Assessment for Data Loss Prevention  
Topic 48E: Tools

### Lesson 49: Hacking Global Positioning System (GPS)

Topic 49A: Global Positioning System (GPS)  
Topic 49B: Terminologies  
Topic 49C: GPS Devices Manufacturers  
Topic 49D: Gpsd-GPS Service Daemon

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Topic 49E: Sharing Waypoints  
Topic 49F: Wardriving  
Topic 49G: Areas of Concern  
Topic 49H: Sources of GPS Signal Errors  
Topic 49I: Methods to Mitigate Signal Loss  
Topic 49J: GPS Secrets  
Topic 49K: Firmware Hacking  
Topic 49L: GPS Tools

### Lesson 50: Computer Forensics and Incident Handling

Topic 50A: Computer Forensics  
Topic 50B: Incident Handling  
Topic 50C: Incident Management  
Topic 50D: Why Don't Organizations Report Computer Crimes?  
Topic 50E: Estimating Cost of an Incident  
Topic 50F: Whom to Report an Incident  
Topic 50G: Incident Reporting  
Topic 50H: Vulnerability Resources  
Topic 50I: What is CSIRT?  
Topic 50J: World CERTs <http://www.trustedintroducer.nl/teams/country.html>  
Topic 50K: <http://www.first.org/about/organization/teams/>  
Topic 50L: IRTs Around the World

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