

EC-Council

Domain	Sub Domain	Description	Number of Questions	Weightage (%)
Information Security and Ethical Hacking Overview	Introduction to Ethical Hacking	 Information Security Overview Hacking Methodologies and Frameworks Hacking Concepts Ethical Hacking Concepts Information Security Controls Information Security Laws and Standards 	7	6%
Techniques	Footprinting and Reconnaissance	 Footprinting Concepts Footprinting Methodology Footprinting through Search Engines Footprinting through Web Services Footprinting through Social Networking Sites Website Footprinting Email Footprinting Whois Footprinting DNS Footprinting Network Footprinting Footprinting through Social Engineering Footprinting Tools Footprinting Countermeasures 	7	17%
	Scanning Networks	 Network Scanning Concepts Scanning Tools Host Discovery Port and Service Discovery OS Discovery (Banner Grabbing/OS Fingerprinting) Scanning Beyond IDS and Firewall Network Scanning Countermeasures 	7	
	Enumeration	 Enumeration Concepts NetBIOS Enumeration SNMP Enumeration LDAP Enumeration NTP and NFS Enumeration SMTP and DNS Enumeration Other Enumeration Techniques (IPsec, VoIP, RPC, Unix/Linux, Telnet, FTP, TFTP, SMB, IPv6, and BGP enumeration) 	7	
3. System Hacking Phases and Attack Techniques	Vulnerability Analysis	 Enumeration Countermeasures Vulnerability Assessment Concepts Vulnerability Classification and Assessment Types Vulnerability Assessment Tools Vulnerability Assessment Reports 	6	15%

	System Hacking	 System Hacking Concepts Gaining Access Password Cracking Vulnerability Exploitation Escalating Privileges Maintaining Access Executing Applications Hiding Files Establishing Persistence 	6	
	Malware Threats	 Clearing Logs Malware Concepts APT Concepts Trojan Concepts Virus and Worm Concepts Fileless Malware Concepts Malware Analysis Malware Countermeasures Anti-Malware Software 	7	
4. Network and Perimeter Hacking	Sniffing	 Sniffing Concepts Sniffing Technique: MAC Attacks Sniffing Technique: DHCP Attacks Sniffing Technique: ARP Poisoning Sniffing Technique: Spoofing Attacks Sniffing Technique: DNS Poisoning Sniffing Tools Sniffing Countermeasures Sniffing Detection Techniques 	6	24%
	Social Engineering	 Social Engineering Concepts Social Engineering Techniques Insider Threats Impersonation on Social Networking Sites Identity Theft Social Engineering Countermeasures 	6	
	Denial-of-Service	 DoS/DDoS Concepts Botnets DoS/DDoS Attack Techniques DDoS Case Study DoS/DDoS Attack Countermeasures DoS/DDoS Protection Tools 	6	
	Session Hijacking	 Session Hijacking Concepts Application-Level Session Hijacking Network-Level Session Hijacking Session Hijacking Tools Session Hijacking Countermeasures 	6	

	Evading IDS, Firewalls, and Honeypots	 IDS, IPS, Firewall, and Honeypot Concepts IDS, IPS, Firewall, and Honeypot Solutions Evading IDS Evading Firewalls Evading NAC and Endpoint Security IDS/Firewall Evading Tools Detecting Honeypots IDS/Firewall Evasion Countermeasures 	6	
5. Web Application Hacking	Hacking Web Servers	 Web Server Concepts Web Server Attacks Web Server Attack Methodology Web Server Attack Countermeasures Patch Management 	6	14%
	Hacking Web Applications	 Web App Concepts Web App Threats Web App Hacking Methodology Footprint Web Infrastructure Analyze Web Applications Bypass Client-Side Controls Attack Authentication Mechanism Attack Authorization Schemes Attack Access Controls Attack Session Management Mechanism Perform Injection/Input Validation Attacks Attack Application Logic Flaws Attack Shared Environments Attack Database Connectivity Attack Web App Client Attack Web Services Web API, Webhooks, and Web Shell Web App Security 	6	
	SQL Injection	 SQL Injection Concepts Types of SQL Injection SQL Injection Methodology SQL Injection Tools Evasion Techniques SQL Injection Countermeasures 	6	
6. Wireless Network Hacking	Hacking Wireless Networks	 Wireless Concepts Wireless Encryption Wireless Threats Wireless Hacking Methodology Wireless Hacking Tools Bluetooth Hacking Wireless Attack Countermeasures Wireless Security Tools 	6	5%
7. Mobile Platform, IoT, and OT Hacking	Hacking Mobile Platforms	 Mobile Platform Attack Vectors Hacking Android OS Hacking iOS Mobile Device Management Mobile Security Guidelines and Tools 	6	10%

	IoT and OT Hacking	 IoT Concepts IoT Attacks IoT Hacking Methodology IoT Attack Countermeasures OT Concepts OT Attacks OT Hacking Methodology OT Attack Countermeasures 	6	
8. Cloud Computing	Cloud Computing	 Cloud Computing Concepts Container Technology Serverless Computing Cloud Computing Threats Cloud Hacking Cloud Security 	6	5%
9. Cryptography	Cryptography	 Cryptography Concepts Encryption Algorithms Cryptography Tools Public Key Infrastructure (PKI) Email Encryption Disk Encryption Cryptanalysis Cryptography Attack Countermeasures 	6	5%