Exam Blueprint V4.0

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Exam Title	Certified Ethical Hacker
Exam Code	312-50 (ECC Exam Portal) / 312-50 (VUE)
No. of Questions	125
Duration	4 Hours
Availability	ECC Exam Portal / VUE
Passing score	69 - 84 %

Domain	No. of Questions (125)	Weightage	Covered in Matt Walker 5th Edition	Ric Messier CH V12
1. Information Security and Ethical Hacking Overview	8	6%	Yes - Ethical hacking fundamentals	Yes - Ch 1 n 2
2. Reconnaissance Techniques	26	21%	Yes - Reconnaissance and footprinting	Yes - CH 4
3. System Hacking Phases and Attack Techniques	21	17%	May be not	Yes - CH 7
4. Network and Perimeter Hacking	18	14%	Yes - Sniffing and evasion ?	May be CH 2 n 5
5. Web Application Hacking	20	16%	Yes - Hacking web servers and applications	May be CH 12
6. Wireless Network Hacking	8	6%	Yes - Wireless network hacking	Yes CH 11
7. Mobile Platform, IoT, and OT Hacking	10	8%	Yes - Mobile, IoT, and OT	NA
8.Cloud Computing	7	6%	Partial - Security in cloud computing	Yes CH 15
9. Cryptography	7	6%	Yes - Cryptography	Yes CH 13

- Passing Criteria is 70% i.e. 88 out of 125 questions
 5 highlighted sections comprise of 95/125, i.e. 76% which is more than passing criteria

Domain	Sub Domain	Description	No. of Questions	Covered in Matt Walker 5th Edition
Information Security and Ethical Hacking Overview	Introduction to Ethical Hacking	Information Security Overview Cyber Kill Chain Concepts Hacking Concepts Ethical Hacking Concepts Information Security Controls Information Security Laws and Standards	8	Yes - Ethical hacking fundamentals
2. Reconnaissance 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 NSF Footprinting Network Footprinting Footprinting Footprinting Footprinting Footprinting through Social Engineering Footprinting Tools Footprinting Countermeasures	10 / 26	Yes - Reconnaissance and footprinting
	Scanning Networks	Network Scanning Concepts Scanning Tools Host Discovery Port and Service Discovery Siscovery (Banner Grabbing/OS Fingerprinting) Scanning Beyond IDS and Firewall Draw Network Diagrams	10 / 26	Yes - Scanning and enumeration
	Enumeration	Enumeration Concepts NetBIOS Enumeration SMMP 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) Enumeration Enumeration Countermeasures	6/26	Yes - Scanning and enumeration
3. System Hacking Phases and Attack Techniques	Vulnerability Analysis	Vulnerability Assessment Concepts • Vulnerability Classification and Assessment Types • Vulnerability Assessment Solutions and Tools • Vulnerability Assessment Reports	9/21	May be not
	System Hacking	System Hacking Concepts Gaining Access Cracking Passwords Vulnerability Exploitation Escalating Privileges Maintaining Access Executing Applications Hiding Files Clearing Logs	6/21	Yes - Attacking a system ?

	Malware Threats	Malware Concepts • APT Concepts • Trojan Concepts • Virus and Worm Concepts • File-less Malware Concepts • Malware Analysis • Malware Countermeasures • Anti-Malware Software	6/21	Yes - Trojans and other attacks, including malware analysis ?
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	3/18	Yes - Sniffing and evasion ?
	Social Engineering Denial-of-Service (DoS)	Social Engineering Concepts Social Engineering Techniques Insider Threats Insider Threats Insider Threats Insider Threats Individual States Insider Threats Insider Threats Insider Threats Insider Threats Insider Threats	2/18	Yes - Social engineering and physical security
	Dema-or-Service (DOS)	DoS/DDoS Attack Techniques Botnets DDoS Case Study DoS/DDoS Attack Tools DoS/DDoS Countermeasures DoS/DDoS Protection Tools	2/10	
	Session Hijacking	Session Hijacking Concepts • Application Level Session Hijacking • Network Level Session Hijacking • Session Hijacking Tools • Session Hijacking Countermeasures	3/18	Maybe - Hacking web servers and applications ?
	Evading IDS, Firewalls, and Honeypots	IDS, IPS, Firewall, and Honeypot Concepts IDS, IPS, Firewall, and Honeypot Solutions Evading IDS Evading Firewalls IDS/Firewall Evading Tools Detecting Honeypots IDS/Firewall Evasion Countermeasures	5/18	Not sure - may be Sniffing and evasion?
5. Web Application Hacking	Hacking Web Servers	Web Server Concepts • Web Server Attacks • Web Server Attack Methodology • Web Server Attack Tools • Web Server Countermeasures • Patch Management • Web Server Security Tools	8/20	Yes - Hacking web servers and applications
	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 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	8/20	Yes - Hacking web servers and applications
	SQL Injection	SQL Injection Concepts Types of SQL Injection SQL Injection Methodology SQL Injection Tools Evasion Techniques SQL Injection Countermeasures	4/20	No
6. Wireless Network Hacking	Hacking Wireless Networks	Wireless Concepts • Wireless Encryption • Wireless Threats • Wireless Hacking Methodology • Wireless Hacking Tools • Bluetooth Hacking • Wireless Countermeasures • Wireless Security Tools	8	Yes - Wireless network hacking
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	4/10	Yes - Mobile, IoT, and OT
	IoT and OT Hacking	IoT Concepts • IoT Attacks	6/10	Yes - Mobile, IoT, and OT

		IoT Hacking Methodology IoT Hacking Tools IoT Countermeasures OT Concepts OT Attacks OT Hacking Methodology OT Hacking Tools OT Countermeasures		
8.Cloud Computing	Cloud Computing	Cloud Computing Concepts Container Technology Serverless Computing Cloud Computing Threats Cloud Hacking Cloud Security	7	Partial - Security in cloud computing
9. Cryptography	Cryptography	Cryptography Concepts • Encryption Algorithms • Cryptography Tools • Public Key Infrastructure (PKI) • Email Encryption • Disk Encryption • Cryptanalysis • Countermeasures	7	Yes - Cryptography