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EC-Council 312-49 Exam Syllabus Topics:

Regulations, Policies and Ethics	- Understand rules and regulations pertaining to search & seizure of the evidence, and evidence examination • Rules of Evidence • Best Evidence Rule • Federal Rules of Evidence • Scientific Working Group on Digital Evidence (SWGDE) • ACPO Principles of Digital Evidence • Seeking Consent • Obtaining Witness Signatures • Obtaining Warrant for Search and Seizure • Searches Without a Warrant • Initial Search of the Scene • Preserving Evidence • Chain of Custody • Sanitize the Target Media • Records of Regularly Conducted Activity as Evidence • Division of Responsibilities - Understand different laws and legal issues that impact forensic investigations • Computer Forensics: Legal Issues • Computer Forensics: Privacy Issues • Computer Forensics and Legal Compliance • Other Laws that May Influence Computer Forensics • U.S. Laws Against Email Crime: CAN-SPAM Act	15%
	- Understand Forensic Investigation Process • Forensic investigation process	

Procedures and Methodology	• Importance of the Forensic investigation process • Setting up a computer forensics lab • Building the investigation team • Understanding the hardware and software requirements of a forensic lab • Validating laboratory software and hardware • Ensuring quality assurance • First response basics • First response by non-forensics staff • First response by system/network administrators • First response by laboratory forensics staff • Documenting the electronic crime scene • Search and seizure • Evidence preservation • Data acquisition • Data analysis • Case analysis • Reporting • Testify as an expert witness • Generating Investigation Report • Mobile Forensics Process • Mobile Forensics Report Template • Sample Mobile Forensic Analysis Worksheet - Understand the methodology to acquire data from different types of evidence • Data Acquisition Methodology • Step 1: Determine the Best Data Acquisition Method • Step 2: Select the Data Acquisition Tool • Step 3: Sanitize the Target Media • Step 4: Acquire Volatile Data • Acquire Data From a Hard Disk • Remote Data Acquisition • Step 5: Enable Write Protection on the Evidence Media • Step 6: Acquire Non-Volatile Data • Step 7: Plan for Contingency • Step 8: Validate Data Acquisition Using • Collecting Volatile Information • Collecting Non-Volatile Information • Collecting Volatile Database Data • Collecting Primary Data File and Active Transaction Logs Using SQLCMD • Collecting Primary Data File and Transaction Logs • Collecting Active Transaction Logs Using SQL Server Management Studio • Collecting Database Plan Cache • Collecting Windows Logs • Collecting SQL Server Trace Files • Collecting SQL Server Error Logs - Illustrate Image/Evidence Examination and Event Correlation • Getting an Image Ready for Examination • Viewing an Image on a Windows, Linux and Mac Forensic Workstations • Windows Memory Analysis • Windows Registry Analysis • File System Analysis Using Autopsy • File System Analysis Using The Sleuth Kit (TSK) • Event Correlation • Types of Event Correlation • Prerequisites of Event Correlation • Event Correlation Approaches - Explain Dark Web and Malware Forensics	17%

	• Dark web forensics • Identifying TOR Browser Artifacts: Command Prompt • Identifying TOR Browser Artifacts: Windows Registry • Identifying TOR Browser Artifacts: Prefetch Files • Introduction to Malware Forensics • Why Analyze Malware? • Malware Analysis Challenges • Identifying and Extracting Malware • Prominence of Setting up a Controlled Malware Analysis Lab • Preparing Testbed for Malware Analysis • Supporting Tools for Malware Analysis • General Rules for Malware Analysis • Documentation Before Analysis • Types of Malware Analysis	
Forensic Science	- Understand different types of cybercrimes and list various forensic investigations challenges • Types of Computer Crimes • Impact of Cybercrimes at Organizational Level • Cyber Crime Investigation • Challenges Cyber Crimes Present for Investigators • Network Attacks • Indicators of Compromise (IOC) • Web Application Threats • Challenges in Web Application Forensics • Indications of a Web Attack • What is Anti-Forensics? • Anti-Forensics Techniques - Understand the fundamentals of computer forensics and determine the roles and responsibilities of forensic investigators • Understanding Computer Forensics • Need for Computer Forensics • Why and When Do You Use Computer Forensics? • Forensic Readiness • Forensic Readiness and Business Continuity • Forensics Readiness Planning • Incident Response • Computer Forensics as part of Incident Response Plan • Overview of Incident Response Process Flow • Role of SOC in Computer Forensics • Need for Forensic Investigator • Roles and Responsibilities of Forensics Investigator • What makes a Good Computer Forensics Investigator? • Code of Ethics • Accessing Computer Forensics Resources • Other Factors That Influence Forensic Investigations • Introduction to Web Application Forensics • Introduction to Network Forensics • Postmortem and Real-Time Analys - Understand data acquisition concepts and rules • Understanding Data Acquisition • Live Acquisition • Order of Volatility • Dead Acquisition • Rules of Thumb for Data Acquisition • Types of Data Acquisition • Determine the Data Acquisition Format	18%

	- Understand the fundamental concepts and working of databases, cloud computing, Emails, IOT, Malware (file and fileless), and dark web • Understanding Dark Web • TOR Relays • How TOR Browser works • TOR Bridge Node • Internal architecture of MySQL • Structure of data directory • Introduction to Cloud Computing • Types of Cloud Computing Services • Cloud Deployment Models • Cloud Computing Threats • Cloud Computing Attacks • Introduction to an email system • Components involved in email communication • How email communication works • Understanding parts of an email message • Introduction to Malware • Components of Malware • Common Techniques Attackers Use to Distribute Malware across Web • Introduction to Fileless Malware • Infection Chain of Fileless Malware • How Fileless Attack Works via Memory Exploits • How Fileless Attack Happens Via Websites • How Fileless Attack Happens Via Documents • What is IoT? • IoT Architecture • IoT Security Problems • OWASP Top 10 Vulnerabilities • IoT Threats • IoT Attack Surface Areas	
Topic	**Details**	**Weights**

Career Prospects

One of the most rewarding benefits of earning any IT certification is the opportunity to explore various career prospects. The professionals with the CHFI certificate have numerous career paths to explore. Of course, it all depends on their area of interest and where they would like to create their career niche. Some of the sectors that the certified individuals can explore include law enforcement, military, defense, and police. They can also build a career in legal professions, banking, insurance, government agencies, and e-Business security, among others.

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EC-Council 312-49 Exam Details

The EC-Council 312-49 test has 150 questions and runs for 4 hours. It can be taken at ECC exam centers around the world and it is only meant for candidates who are 18 years & above and have also satisfied other qualification requirements. Like most of the

EC-Council exams, the passing score can be anything from 60% to 78% depending on the difficulty level of the test questions. Also, the vendor has the authority to annul your certificate if you fail to comply with the stipulated guidelines. For that reason, it makes more sense to check out the official certification page before you register for the actual evaluation.

EC-COUNCIL Computer Hacking Forensic Investigator Sample Questions (Q494-Q499):

NEW QUESTION # 494
Bob has encountered a system crash and has lost vital data stored on the hard drive of his Windows computer.
He has no cloud storage or backup hard drives. he wants to recover all those data, which includes his personal photos, music, documents, videos, official email, etc. Which of the following tools shall resolve Bob's purpose?

- A. Recuva
- B. Cain & Abel
- C. Colasoft's Capsa
- D. Xplico

Answer: D

NEW QUESTION # 495
Which of the following is a part of a Solid-State Drive (SSD)?

- A. Spindle
- B. Cylinder
- C. NAND-based flash memory
- D. Head

Answer: C

NEW QUESTION # 496
Where are files temporarily written in Unix when printing?

- A. /var/print
- B. /var/spool
- C. /spool
- D. /usr/spool

Answer: B

NEW QUESTION # 497
When investigating a computer forensics case where Microsoft Exchange and Blackberry
Enterprise server are used, where would investigator need to search to find email sent from a Blackberry device?

- A. Blackberry Enterprise server
- B. Microsoft Exchange server
- C. Blackberry desktop redirector
- D. RIM Messaging center

Answer: B

NEW QUESTION # 498
While searching through a computer under investigation, you discover numerous files that appear to have had the first letter of the file name replaced by the hex code byte 5h. What does this indicate on the computer?

- A. The files have been marked as hidden
- B. The files have been marked for deletion

- C. The files have been marked as read-only
- D. The files are corrupt and cannot be recovered

Answer: B

NEW QUESTION # 499

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