

# WGU Digital-Forensics-in-Cybersecurity Exam Labs & Digital-Forensics-in-Cybersecurity Pdf Version

## WGU D431 - Digital Forensics in Cybersecurity Exam Preview | Graded A+ | 100% Correct

**TERM**  
Know the laws

**DEFINITION**  
Several questions about ECPA, Wireless , and which laws established computer crime task force and regional forensics labs.

**LOCATION**

COACHING REPORT – Digital Forensics in Cybersecurity (DQ01)

Attempt - February 2, 2024

Competent

Competencies and Topics	Assessment Score
Identifies Forensics Rules, Policies, and Laws - 18% of assessment	Competent
Conducts Forensic Analysis - 64% of assessment	Exemplary
Identifies Steganography Techniques - 18% of assessment	Competent

Time used: 17 min      # of Questions: 55      Location: Site Proctored

**TERM**  
Know the tools and important file locations

**DEFINITION**  
Half a dozen questions asking which tool detects steganography. Several asking which specific tool for purpose (free, to edit mp3/video/image, for iphone, etc). Several about specific mac or windows file/folder locations.

**LOCATION**

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## WGU Digital-Forensics-in-Cybersecurity Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Domain Digital Forensics in Cybersecurity: This domain measures the skills of Cybersecurity technicians and focuses on the core purpose of digital forensics in a security environment. It covers the techniques used to investigate cyber incidents, examine digital evidence, and understand how findings support legal and organizational actions.</li> </ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Domain Incident Reporting and Communication:</b> This domain measures the skills of Cybersecurity Analysts and focuses on writing incident reports that present findings from a forensic investigation. It includes documenting evidence, summarizing conclusions, and communicating outcomes to organizational stakeholders in a clear and structured way.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Domain Legal and Procedural Requirements in Digital Forensics:</b> This domain measures the skills of Digital Forensics Technicians and focuses on laws, rules, and standards that guide forensic work. It includes identifying regulatory requirements, organizational procedures, and accepted best practices that ensure an investigation is defensible and properly executed.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Domain Evidence Analysis with Forensic Tools:</b> This domain measures skills of Cybersecurity technicians and focuses on analyzing collected evidence using standard forensic tools. It includes reviewing disks, file systems, logs, and system data while following approved investigation processes that ensure accuracy and integrity.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Domain Recovery of Deleted Files and Artifacts:</b> This domain measures the skills of Digital Forensics Technicians and focuses on collecting evidence from deleted files, hidden data, and system artifacts. It includes identifying relevant remnants, restoring accessible information, and understanding where digital traces are stored within different systems.</li> </ul>

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## Pass Guaranteed WGU - Digital-Forensics-in-Cybersecurity - Useful Digital Forensics in Cybersecurity (D431/C840) Course Exam Exam Labs

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### WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q33-Q38):

#### NEW QUESTION # 33

The following line of code is an example of how to make a forensic copy of a suspect drive:

```
dd if=/dev/mem of=/evidence/image.memory1
```

Which operating system should be used to run this command?

- A. Windows
- B. MacOS
- **C. Linux**
- D. Unix

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The 'dd' command is a Unix/Linux utility used to perform low-level copying of data, including forensic imaging. It allows bit-for-bit copying of drives or memory, making it a common tool in Linux-based forensic environments.

\* Windows does not natively support 'dd'; similar imaging tools are used there.

\* The command syntax and file paths indicate Linux/Unix usage.

Reference: Digital forensics training and NIST SP 800-101 mention 'dd' as a reliable imaging tool in Linux forensic workflows.

#### NEW QUESTION # 34

How do forensic specialists show that digital evidence was handled in a protected, secure manner during the process of collecting and analyzing the evidence?

- A. By deleting temporary files
- **B. By maintaining the chain of custody**
- C. By encrypting all evidence
- D. By performing backups

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The chain of custody is a documented, chronological record detailing the seizure, custody, control, transfer, analysis, and disposition of evidence. Maintaining this record proves that the evidence was protected and unaltered, which is essential for court admissibility.

\* Each transfer or access must be logged with date, time, and handler.

\* Breaks in the chain can compromise the legal validity of evidence.

Reference:According to NIST and forensic best practices, the chain of custody documentation is mandatory for reliable evidence handling.

### NEW QUESTION # 35

Which law requires a search warrant or one of the recognized exceptions to search warrant requirements for searching email messages on a computer?

- A. Stored Communications Act
- B. Electronic Communications Privacy Act (ECPA)
- **C. The Fourth Amendment to the U.S. Constitution**
- D. Communications Assistance to Law Enforcement Act (CALEA)

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Fourth Amendment protects against unreasonable searches and seizures, requiring law enforcement to obtain a search warrant based on probable cause before searching private emails on computers, except in certain recognized exceptions (such as consent or exigent circumstances).

\* Protects privacy rights in digital communication.

\* Failure to obtain proper legal authorization can invalidate evidence.

Reference:NIST guidelines and U.S. Supreme Court rulings affirm the Fourth Amendment's application to digital searches.

### NEW QUESTION # 36

The human resources manager of a small accounting firm believes he may have been a victim of a phishing scam. The manager clicked on a link in an email message that asked him to verify the login credentials for the firm's online bank account.

Which digital evidence should a forensic investigator collect to investigate this incident?

- A. System logs
- B. Network traffic logs
- C. Email headers
- **D. Browser cache**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The browser cache stores recently accessed web pages, images, and cookies, which may include phishing site content and related activity. Investigators analyzing phishing attacks collect browser cache data to reconstruct the victim's web activity and detect malicious sites.

\* Cached web pages help corroborate victim statements and establish timelines.

\* Browser history and cache are volatile and must be preserved promptly.

Reference:According to NIST SP 800-101 and forensic guides, browser cache is critical in investigating phishing and web-based

attacks.

### NEW QUESTION # 37

Which law includes a provision permitting the wiretapping of VoIP calls?

- A. Stored Communications Act
- B. Electronic Communications Privacy Act (ECPA)
- C. Communications Assistance to Law Enforcement Act (CALEA)
- D. Health Insurance Portability and Accountability Act (HIPAA)

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Communications Assistance to Law Enforcement Act (CALEA) mandates telecommunications carriers to assist law enforcement in executing authorized wiretaps, including on Voice over IP (VoIP) calls, ensuring lawful interception capabilities.

\* CALEA requires built-in surveillance capabilities in communications systems.

\* It balances privacy rights with law enforcement needs.

Reference: CALEA is cited in digital forensics and cybersecurity standards relating to lawful interception capabilities.

### NEW QUESTION # 38

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