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# Thomas A. Edison Career & Technical Education H.S.

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**Mr. Haripersaud**  
*Instructor*

**Course: 11<sup>th</sup> Grade Computer Forensics**

## 11<sup>th</sup> Grade Summer Assignment

Instructions: You must complete this assignment in full complete sentences. This assignment is due the first day of classes and it will count as (2) exam grades. You can either type or handwrite this assignment. If you hand write this assignment, it must be legible! If not, please type your work following this standard: double-spaced, size 11 font, Times New Roman.

If you have any questions regarding this assignment, contact Mr. Haripersaud at [Nharipersaud@taehs.org](mailto:Nharipersaud@taehs.org).

Name: \_\_\_\_\_

OSIS: \_\_\_\_\_

## **Objectives Review**

### 1.0 Digital Forensics Profession and Investigations

What is digital forensics? What are some examples of digital evidence?

What are some common practices when conducting an investigation?

Define computer crime and policy violation.

### 2.0 Data Acquisition

What are various types of storage medias? Briefly explain each.

What is the difference between local data acquisition and network acquisition?

Research a forensics acquisition tool. Briefly explain.

### 3.0 Processing Crime and Incident Scenes

What are some rules of evidence?

What is the proper method of storing digital evidence?

### 4.0 Working with Windows and CLI system

What is the difference between a GUI and CLI system?

What is a file system? What are the various types of windows files system?

What is a virtual machine? How do we identify a virtual machine?

### 5.0 Linux and Macintosh File systems

What is the file system used for a Linux OS?

What is the file system used for a Macintosh OS?

What are some types of Linux forensics tools?

### 6.0 Recovering Graphics files

What are some types of graphic files?

What is data compression? What are some examples of data compression?

### 7.0 Digital Forensics Analysis and Validation

Research some methods of hiding files using the OS. Write a (1) paragraph explanation of one method.

### 8.0 Email and Social Media Investigations

What are some types of email crimes and violations?

How do we conduct an investigation for social media?

### 9.0 Mobile Device Forensics

What is mobile device forensics?

What is the acquisition procedure for mobile devices?

### 10.0 Cloud Forensics

What is cloud computing? How is data stored on the cloud?

What are some technical challenges in cloud forensics?

### 11.0 Ethics

Define the term ethics.

What are some types of ethical responsibilities?

## **Vocabulary**

Define the following terms in full sentences.

1. Chain of Custody
2. Spoliation
3. Intellectual Property
4. Computer Forensics
5. Digital Evidence
6. Random Access Memory (RAM)
7. Peripheral Device
8. Primary/Secondary Storage
9. Server
10. File Directory
11. File Slack
12. Open Source System
13. OS Kernel
14. Master Boot Record (MBR)
15. BIOS

## **Acronyms**

Decode the following.

1. SSD
2. DOS
3. BYOD
4. VHD
5. UEFI
6. SAN
7. SaaS
8. RAID
9. .psd
10. .png
11. PII
12. NTFS
13. FAT
14. .jpeg
15. CF

Please note that these terms are directly connected to Computer Forensics. I am requesting the technical definition of each term. Points will be deducted for the “non-technical” definition of a term.