

# GIAC Foundational Cybersecurity Technologies



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# Online Course

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## Course Modules

### 1. Computer Hardware & Virtualization

Understand key hardware components and their functions as well as associated memory concepts and understand virtualization and containers, their uses and advantages/disadvantages.

### 2. Exploitation & Mitigation

Common exploit anatomy and methodology, as well as have a basic awareness & understanding of the tools used by attackers to achieve & increase system access, as well as appropriate mitigation strategies and techniques.

### 3. Forensics & Post-Exploitation

- o Familiar with tools used in forensics investigations as well as their function, understand the stages of incident response, and understand the objectives of different types of forensics investigations & associated key artifacts and evidence.

- o Post-exploitation goals and methodology including persistence, lateral movement, and exfiltration.



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## 4. Linux Foundations

Linux commands, understand permissions and access control, and understand the key elements of Linux as it relates to file systems, architecture, and networking.

## 5. Logic & Programming

Result of basic logical operations, have a familiarity with programming syntax, constructs, and errors in popular languages, and understand how programs execute and the functions of memory allocations.

## 6. Networking & Servers

Core networking concepts, protocols, and understand different server types and their uses.

## 7. Operating Systems, The Web, & Data Storage

Typical function and duties/task of the operating system, and be familiar with different file systems, web technology, and have some familiarity with cloud computing models and their advantages/disadvantages.





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## **8. Security Concepts**

Concepts & terminology associated with cryptography, be familiar with ethical and legal concerns that are associated with hacking, understand the stages of an attack, and be familiar with key defensive strategies and concepts.

## **9. Windows Foundations**

Windows CLI commands, understand permissions & access control, & understand the key elements of Windows as it relates to file systems, architecture, and networking.

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