

**GIAC Experienced Cyber
Security**



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Online Course



Course Modules

1. Full System Evaluation

Solve a complex security related task based on a system & scenario presented to them. Some tools to consider completing these objectives would be tcpdump, Hashcat, nmap, hping3, strings, and any other SEC401 or earlier course tools.

2. Linux Password Cracking

Manipulate a dictionary file and crack passwords in a Linux environment using tools such as Hashcat and Aircrack-NG to access secure information from encrypted files using GPG or GPA.

3. Malicious Program Execution and Exploitation

Evaluate executables using the strings tool and other methods, use a trojan executable to gain privileged access to another computer and perform a task, or utilize a command injection attack to gain privileged access

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4. Network Communication Analysis

Extract information from a datastream (network connection, log files, alerts, etc...) or Pcap using tools such as tcpdump, Wireshark, Snort, etc... to access secure information from encrypted sources (GPA (GPG), Image Steganography, protected files, etc...).

5. Network Scanning

Scan a network to find open and closed ports, OS versions, and various vulnerabilities. The candidate should be able to recognize this traffic in a traffic monitoring application such as tcpdump. This information could be used to connect to a host, apply a minor exploit, or craft packets using Hping3 to bypass firewalls, spoof IP and/or Port to gain information.

6. Process Hacking

Evaluate vulnerable processes and exploit them to gain access to secure information using the Process Hacker tool.



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7. Windows Password Analysis

Recover hashes from the SAM database and crack passwords in a Windows environment using the Cain and Abel tool.

8. Windows System Evaluation

Evaluate vulnerable processes and exploit them to gain access to secure information. Evaluate Windows firewall configurations and use Powershell to perform complex Windows administration tasks.



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The efficiency of online learning
in terms of time management,
flexibility, and the ability
to access resources anytime,
anywhere can be compelling.



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