

GIAC Security Essentials



Online Course

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Course Modules

1. Access Control & Password Management

Fundamental theory of access control and the role of passwords in managing access control.

2. Container and MacOS Security

How to secure containers and understand security features provided in MacOS.

3. Cryptography

Cryptography, including a high-level understanding of the major types of cryptosystems and steganography.

4. Cryptography Algorithms & Deployment

Mathematical concepts that contribute to cryptography and identify commonly used symmetric, asymmetric, and hashing cryptosystems.

5. Cryptography Application

Functionality, and operation of VPNs, GPG, and PKI

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6. Data Loss Prevention and Mobile Device Security

Risks and impacts of data loss, how to prevent it, and the security considerations.

7. Defense in Depth

Defense in depth is and an identify the key areas of security and demonstrate the different strategies for implementing effective security within an organization.

8. Defensible Network Architecture

Architect a network to be monitored & controlled to resist intrusion.

9. Endpoint Security

Basic understanding of the function and uses of endpoint security devices, such as endpoint firewalls, HIDS, and HIPS

10. Enforcing Windows Security Policy

Group Policy and working with INF security templates

11. Incident Handling & Response

Incident handling and the processes pertaining to incident handling.



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13. Linux Security and Hardening

Linux system to be able to secure, audit, and harden the system.

14. Log Management & SIEM

High-level understanding of the importance of logging, the setup and configuration of logging, & log analysis with the assistance of SIEMs

15. Malicious Code & Exploit Mitigation

Important attack methods and basic defensive strategies to mitigate those threats.

16. Network Security Devices

Function and uses of network security devices, such as, firewalls, NIDS, and NIPS

17. Networking & Protocols

Understanding of the properties and functions of network protocols and network protocol stacks.

18. Security Frameworks and CIS Controls

Implementation, and background of the CIS Critical Controls, NIST Cybersecurity Framework, and the MITRE ATT&CK knowledge base.



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19. Virtualization and Cloud Security

Risks of virtualization and cloud services and how to secure them.

20. Vulnerability Scanning and Penetration Testing

Relationship behind reconnaissance, resource protection, risks, threats, and vulnerabilities including preliminary abilities to create network maps and perform penetration testing techniques

21. Web Communication Security

Web application security and common vulnerabilities including CGI, cookies, SSL and active content.

22. Windows Access Controls

Windows NT File System, Shared Folders, Printers, Registry Keys, and Active Directory, and how Privileges are applied

23. Windows as a Service

Manage updates for a network of Windows hosts.

24. Windows Automation, Auditing, and Forensics

Introduced to the techniques and technologies used to audit Windows hosts.



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25. Windows Security Infrastructure

Differences between types of Windows OSes and how Windows manages groups and accounts, locally and with Active Directory and Group Policy

26. Windows Services and Microsoft Cloud

Basic measures in securing Windows network services such as IPsec, IIS, & Remote Desktop Services & Microsoft Azure security features.

27. Wireless Network Security

Misconceptions and risks of wireless networks & how to secure them.

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REMOTELY!!**

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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+91 9600579474**

