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Course Name

GIAC Security Essentials Certification

Sector Name

Information Technology

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GIAC Security Essentials Certification

Course Introduction

The GIAC Security Essentials Certification (GSEC) is a globally recognized credential that validates a practitioner's ability to apply essential cybersecurity knowledge in real-world environments.

This **five-day** intensive course is designed to thoroughly prepare participants for the GSEC exam and equip them with the practical skills required to implement and manage effective information security in modern IT infrastructures.

Unlike entry-level programs that focus primarily on conceptual theory, this training bridges the gap between foundational knowledge and applied expertise. It dives deep into network security, cryptography, cloud and virtualization protection, operating system hardening (Windows and Linux), secure communications, identity and access management, threat detection, malware analysis, and incident response.

Participants will engage in hands-on labs and interactive simulations that replicate real-world security challenges, enabling them to build experience with tools such as Wireshark, Snort, and SIEM platforms. The course also integrates practitioner-level skills in vulnerability assessment, firewall configuration, encryption implementation, and

wireless security controls.

By the end of the training, participants will have the confidence and technical depth to pass the GSEC exam and, more importantly, to apply the knowledge in enterprise, cloud, and hybrid environments to protect critical systems and data from modern threats.

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Target Audience

- ✓ IT and Network Administrators
- ✓ System Engineers and Analysts
- ✓ Security Operations Center (SOC) Analysts
- ✓ Information Security Officers
- ✓ Incident Responders
- ✓ Forensics Investigators
- ✓ Cybersecurity Enthusiasts preparing for GSEC certification
- ✓ Technical professionals seeking practical, hands-on cyber defence skills

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Learning Objectives

- ✓ Understand and implement layered defence strategies across modern IT architectures.
- ✓ Secure and harden operating systems including Windows, Linux, and macOS.
- ✓ Configure authentication methods, access controls, and identity management systems.
- ✓ Apply core cryptographic techniques to protect data and communications.
- ✓ Detect, respond to, and analyze security incidents effectively.
- ✓ Use tools like Wireshark, Snort, and SIEMs for monitoring and intrusion detection.
- ✓ Assess vulnerabilities, conduct basic malware analysis, and secure endpoints.
- ✓ Implement cloud and virtualization security practices.
- ✓ Design security policies and procedures aligned with best practices.
- ✓ Prepare thoroughly for the GSEC certification exam with real-world confidence.

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Course Outline

✓ DAY 01

Information Security Foundations and Networking Essentials

- ✓ Overview of the GSEC Certification and exam structure
- ✓ Introduction to cybersecurity concepts and the defence-in-depth model
- ✓ TCP/IP networking fundamentals, OSI model, ports, and protocols
- ✓ Subnetting, routing, and firewall basics
- ✓ Network design and segmentation for enhanced security

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Course Outline

✓ Day 02

Authentication, Access Control & Operating System Security

- ✓ Authentication models: passwords, tokens, biometrics, MFA
- ✓ Access control types: DAC, MAC, RBAC
- ✓ Introduction to IAM (Identity and Access Management)
- ✓ Hardening Windows systems: Group Policy, account auditing, event logging
- ✓ Securing Linux systems: file permissions, process control, sudo policies

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Course Outline

✓ Day 03

Cryptography, Cloud Security & Virtualization

- ✓ Symmetric and asymmetric encryption principles
- ✓ Hashing, digital signatures, and certificates
- ✓ Implementing VPNs, SSL/TLS, and email encryption
- ✓ Introduction to Public Key Infrastructure (PKI)
- ✓ Overview of cloud security risks and the shared responsibility model
- ✓ Security considerations for virtual machines and containers

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Course Outline

✓ Day 04

Intrusion Detection, Malware, and Network Defense

- ✓ Types of threats: viruses, worms, Trojans, ransomware, APTs
- ✓ Malware detection and sandboxing concepts
- ✓ Intrusion detection and prevention systems (IDS/IPS)
- ✓ Network defense tools: firewalls, Snort, Zeek
- ✓ Log management and SIEM integration
- ✓ Vulnerability scanning using tools like Nessus

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Course Outline

✓ Day 05

Incident Response, Wireless Security & Exam Readiness

- ✓ Incident response lifecycle: preparation, detection, containment, recovery
- ✓ Legal considerations and documentation
- ✓ Wireless security protocols and attack vectors (WEP, WPA2, WPA3)
- ✓ Physical security and endpoint protection best practices

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 $	UAE , Abu Dhabi
April 26, 2027	April 30, 2027	5 days	4950.00 $	Spain , Madrid
Aug. 9, 2027	Aug. 13, 2027	5 days	4250.00 $	UAE , Dubai
March 14, 2027	March 18, 2027	5 days	4250.00 $	KSA , Riyadh

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