

GIAC Catalog

2025



GIAC's Certification Options

GIAC's Certification Journey offers candidates a level of flexibility to create their own path to success. With GIAC® Certification Categories and GIAC® Certification Portfolios, candidates now have multiple avenues to demonstrate their knowledge and expertise and attain industry-recognized milestones.

The Power of Certification

Research continually proves that credentialed employees consistently contribute greater value to their organization.

Benefits for Organizations

Source: Pearson VUE 2024 Value of Certification Report

81% produce higher quality work	77% more innovative and enhance work outcomes	72% more efficient and productive
82% greater ability to mentor and support co-workers	74% increased work autonomy and independence	74% perform a task/fill a role they could not before

Benefits for Employees

Source: Pearson VUE 2024 Value of Certification Report

92% feel more confident in their abilities	84% are more determined to succeed professionally	78% are more satisfied with their jobs
74% have greater work autonomy and independence	80% successfully met their goal whether it was a pay raise, job promotion, productive gains, and/or personal satisfaction	

GIAC® The Gold Standard in Cybersecurity Certifications

- Coverage for every cybersecurity domain with over 50+ certifications
- Hands-on, real-world testing that validates skills
- Maps to over 100 specific job roles and requirements
- Refreshed annually to stay ahead of evolving threat landscape
- Globally trusted by Industry Fortune 100 and US and non-US governments
- DOD Approved and compliant with 8140 Directive
- Legally defensible with alignment to International ISO 17024

Maximizing ROI With Certifications

Investing in IT certification impacts the bottom line for businesses.

The ROI per credentialed employee is estimated to be as high as

\$30,000

64% of IT decision makers estimate that each credentialed IT employee adds

\$10,000

or more in the **additional value** of their contributions compared to their non-certified counterparts.

"I value the instant respect and credibility GIAC professionals receive. People know you've worked hard to obtain the certification and they recognize the critical skills and knowledge that come with it."

Ben Boyle, GWAPT®, GXPNTM, GPEN®

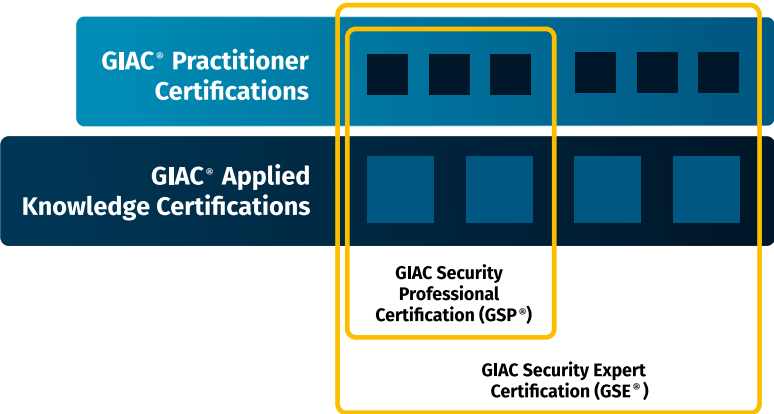
"Attackers are always evolving, and having a GIAC cert prepares you to evolve with them. It allows you to implement the appropriate methods and best practices in your company while understanding it's a continuous fight."

Jason Sevilla, GCIH®, CMON®, GSEC®

Create Your Own Path

GIAC® offers two types of certifications: Practitioner Certifications and Applied Knowledge Certifications.

Practitioners can mix and match certifications to build a unique portfolio, showcasing expertise in specific fields or across multiple areas. By completing a portfolio, you can earn the GIAC Security Professional (GSP) certification. From there, you can aim for the GIAC Security Expert (GSE) certification, the pinnacle of GIAC credentials.



The Benefits of Stackable Skills

GIAC’s New Certification Journey was built on the idea of skill stacking and the benefits that skill stacking produces. Skill stacking is the concept that individuals can make themselves more valuable by gaining a wide range of skills instead of pursuing one skill or talent. As candidates build their GSP and GSE Portfolios, they can master complementary skills that support each other, creating a unique and diversified skill set. Skill stacking:

- Makes work more rewarding
- Increases your value as an employee
- Makes work more interesting
- Diversifies your skill set
- Makes success more achievable
- Creates new opportunities

<https://www.indeed.com/career-advice/career-development/what-is-skill-stacking>

GIAC Certification Categories:

GIAC Practitioner Certifications



These certifications validate your skills and ability to succeed in real-world roles. Key details:

- Perfect for beginners or those advancing toward GSP or GSE certification.
- Cover a broad range of infosec topics like offensive operations, cyber defense, cloud security, management, and ICS.
- May include hands-on CyberLive® questions to test skills in virtual environments.
- Stackable with Applied Knowledge Certifications to build a comprehensive portfolio.

As always, the best ways to prepare for any GIAC Practitioner exam are with the affiliate training course and GIAC practice tests, both available for purchase. GIAC currently offers 40+ Practitioner Certifications and will continue to add more certifications into this category.

GIAC® Applied Knowledge Certifications

Taking testing to the next level, GIAC® Applied Knowledge Certifications are designed to provide a more comprehensive and rigorous assessment of knowledge and skills.

- Cover a range of topics to provide candidates with a more thorough understanding of the subject matter
- 100% CyberLive® exams are designed to push beyond individual technical skills. CyberLive® questions require you to synthesize your skills and use them to solve real-world challenges in a virtual machine environment
- Designed for candidates who wish to challenge themselves and demonstrate mastery of a subject
- Stackable with Practitioner Certifications to build portfolios toward the GSP® or GSE® certifications.

Unlike Practitioner exams, preparation for Applied Knowledge Certifications is not tied to a specific training course. GIAC recommends reviewing the Areas Covered list on the certification page, combining it with relevant training, hands-on experience, and practical labs to ensure success. Demo Question Sets are available for purchase. These sets include three one-time-use questions designed to provide insight into the exam format.

GIAC Currently offers 6 Applied Knowledge Certifications with the ability to show expertise in Offensive Operations, Cyber Defense, and Digital Forensics and Incident Response Areas.

Offensive Operations



GIAC Experienced Incident Handler Certification (GX-IH)®



GIAC Experienced Penetration Tester (GX-PT)®

Cyber Defense



GIAC Experienced Cybersecurity Specialist Certification (GX-CS)®



GIAC Experienced Intrusion Analyst Certification (GX-IA)®

Digital Forensics



GIAC Experienced Forensic Analyst (GX-FA)®



GIAC Experienced Forensics Examiner (GX-FE)™

GIAC currently offers 6 Applied Knowledge Certifications and will continue to add more certifications into this category.

GIAC Certification Portfolios:

GIAC Security Professional (GSP®)

Building your Certification Portfolio to achieve the GIAC Security Professional (GSP®) certification proves your depth and breadth of knowledge. This serves as both a new milestone for candidates and a midpoint for those on their journey to earning the Security Expert (GSE®) credential.

To become a GIAC® Security Professional:

- Complete 3 GIAC® Practitioner Certifications and 2 GIAC Applied Knowledge Certifications in any combination.
- The required certifications must remain active but can be earned over any timeline.

Candidates who become GIAC Security Professionals will receive a GIAC Security Professional Coin.



GIAC Security Expert (GSE®)

Building your Certification Portfolio gives you the opportunity to attain the GSE certification. This represents the most prestigious credential in the IT security industry.

To become a GIAC Security Expert:

- Complete 6 GIAC Practitioner Certifications and 4 GIAC Applied Knowledge Certifications in any combination.
- The required certifications must remain active but can be earned over any timeline.

Candidates who become GIAC Security Experts will receive a GIAC Security Expert Coin.



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“The GSE certification offered a specific challenge--a goalpost that I could pursue intentionally. It motivated me to learn skills outside my comfort areas and offered a framework within which I could grow as a security professional. As with other meaningful pursuits, GSE was more about the journey than the destination for me. As I attained and applied knowledge, I met people along the way who became my colleagues and collaborators. And I gained confidence in my learning abilities, which allowed me to continue to excel even after earning GSE.”

Lenny Zeltser, GSE

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Multiple Ways to Become an Expert

SANS® instructors are renowned for being some of the most respected cybersecurity experts in the world. With diverse backgrounds, each instructor brings a unique set of experiences and perspectives that make them stand out in the industry. It’s clear that no two instructors have had the same journey to becoming an expert, making it even more impressive that they’ve achieved such an elite level of expertise.

Lenny Zeltser

Job Role: CISO at Axonius and SANS Instructor

Journey to Becoming a GSE:
2.5 years

Certifications Earned: GCIA®, GCIH®, GCUX®, GCWN®, GPPA®, GSEC®, GSE®



Ismael Valenzuela

Job Role: Vice President of Threat Research & Intelligence at Blackberry and SANS Instructor

Journey to Becoming a GSE:
16 months

Certifications Earned: GCFA®, GCIA®, GCIH®, GCUX®, GCWN®, GDSA®, GMON®, GPEN®, GREM®, GSNA®, GWAPT®, GSE®



NEW Micro-Credentials and Their Importance

GIAC®’s micro-credential demonstrates skill proficiency in a focused, high-demand area of cybersecurity. Micro credentials are shorter and more targeted than certifications. These credentials narrow in on precise skills within the boarder domains of cybersecurity, such as secure configuration in the cloud using AWS and leveraging AI for cyber defense techniques or OSINT.

Micro-credentials provide a pathway to quickly validate expertise on particular area of need in a rapidly evolving cybersecurity landscape.



CyberLive®, Real-world hands-on testing

Raising the bar even higher on GIAC® Certifications

The CyberLive® hands-on environment brings real-world scenarios to life for skill validation.

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Learn more at giac.org/cyberlive

“Cyberlive is a gamechanger in the certification world. The virtualized environment emulates the real world, forcing the candidate to demonstrate hands-on practical knowledge that can’t be faked.”

Matthew Swenson, CEO Black Rainbow Group

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Defending against attacks is only possible with the right skill set – and confidence in your abilities and those of your team. GIAC®'s Cyber Defense certifications focus on three areas: cyber defense essentials, blue team operations, and purple team, spanning the entire defense spectrum. Whether your needs are beginner-level, advanced, or for a specialized area of defense, GIAC® has the credentials you need to keep your organization safe from the latest threats.

Cyber Defense Essentials Certifications



GSEC® Security Essentials

- Prevention of Attacks and Detection of Adversaries
- Networking Concepts, Defense in Depth, Secure Communications
- Foundational Windows and Linux Security

SANS® Course: SEC401™: Security Essentials - Network, Endpoint, and Cloud™



GCED® Enterprise Defender

- Network and cloud-based defensive infrastructure
- Penetration testing; Digital forensics; Incident response
- Packet analysis; Intrusion analysis; Malware analysis

SANS® Course: SEC501™: Advanced Security Essentials – Enterprise Defender™

“GIAC has helped open doors for me in my cybersecurity career. The security of your cyber-assets depends directly on the skills and knowledge of your security team that GIAC exams validate.”

– Trey Blalock, GWAPT®, GCFA®, GPEN®

Purple Team Certifications



GFACT® Foundational Cybersecurity Technologies

- Core Computing Components: Hardware and Virtualization, Networking, Operating Systems, Web, Cloud, and Data Storage
- IT Fundamentals and Concepts: Logic and Programming, Windows, and Linux
- Security Foundations and Threat Landscape: Concepts, Exploitation and Mitigation, Forensics and Post Exploitation

SANS Course: SEC275™: Foundations - Computers, Technology, & Security™



GCIH® Certified Incident Handler

- Incident response and cyber investigation best practices
- Identifying common exploitation, persistence, and evasion techniques Using and
- Detecting Hacker Tools (Nmap, Metasploit, and Netcat)

SANS Course: SEC504™: Hacker Tools, Techniques, & Incident Handling™



GDAT™ Defending Advanced Threats

- Advanced Persistent Threat Models and Methods
- Detecting and Preventing Payload Deliveries, Exploitation, and Post-Exploitation Activities
- Using Cyber Deception to Gain Intelligence for Threat Hunting and Incident Response

SANS Course: SEC599™: Defeating Advanced Adversaries – Purple Team Tactics & Kill Chain Defenses™

Blue Team Operations Certifications



GOSI™ Open Source Intelligence

- Open Source Intelligence Methodologies and Frameworks
- OSINT Data Collection, Analysis, and Reporting
- Harvesting Data from the Dark Web

SANS Course: SEC497™: Practical Open-Source Intelligence (OSINT)™



GCIA® Certified Intrusion Analyst

- Fundamentals of Traffic Analysis and Application Protocols
- Open-Source IDS: Snort and Zeek
- Network Traffic Forensics and Monitoring

SANS Course: SEC503™: Network Monitoring and Threat Detection In-Depth™



GSOC™ Security Operations Certified

- SOC monitoring and incident response using incident management systems, threat intelligence platforms, and SIEMs
- Analysis and defense against the most common enterprise-targeted attacks
- Designing, automating, and enriching security operations to increase efficiency

SANS Course: SEC450™: Blue Team Fundamentals: Security Operations and Analysis™



GMLE™ Machine Learning Engineer

- Machine Learning
- Data Science
- Anomaly Detection & Optimization

SANS Course: SEC595™: Applied Data Science and AI/ Machine Learning for Cybersecurity Professionals™



GMON® Continuous Monitoring

- Security Architecture and Security Operations Centers
- Network Security Architecture and Monitoring
- Endpoint Security Architecture, Automation and Continuous Monitoring

SANS Course: SEC511™: Continuous Monitoring and Security Operations™



GDSA™ Defensible Security Architecture

- Defensible Security Architecture: network-centric and data-centric approaches
- Network Security Architecture: hardening applications across the TCP/IP stack
- Zero Trust Architecture: secure environment creation with private, hybrid or public clouds

SANS Course: SEC530™: Defensible Security Architecture and Engineering: Implementing Zero Trust for the Hybrid Enterprise™



GCDA™ Certified Detection Analyst

- SIEM Architecture and SOF-ELK
- Service Profiling, Advanced Endpoint Analytics, Baselining and User Behavior Monitoring
- Tactical SIEM Detection and Post-Mortem Analysis

SANS Course: SEC555™: SIEM with Tactical Analytics™



GPYC® Python Coder

- Python Essentials: Variable and Math Operations, Strings and Functions, and Compound Statements
- Data Structures and Programming Concepts, Debugging, System Arguments, and Argparse
- Python Application Development for Pen Testing: Backdoors and SQL Injection

SANS Course: SEC573™: Automating Information Security with Python™



GISF® Information Security Fundamentals

- Information Security Foundations
- Cryptography
- Network Protection Strategies and Host Protection

SANS Course: SEC301™: Intro to Cyber Security™



Offensive Operations Certifications

Offensive operations practitioners are in high demand due to their skill at discovering and exploiting vulnerabilities across the threat landscape. GIAC®'s offensive operations certifications cover critical domains and highly specialized usages, ensuring professionals are well-versed in essential offensive abilities. GIAC® certifications prove that you have the offensive knowledge and skills necessary to skills necessary to conduct penetration test engagements, execute red team operations and exploit systems to expose vulnerabilities.

Penetration Testing Certifications



GCIH® Certified Incident Handler

- Incident Handling and Computer Crime Investigation
- Computer and Network Hacker Exploits
- Attacker Techniques (Nmap, Masscan, Metasploit and Netcat)

SANS Course: SEC504™: Hacker Tools, Techniques, and Incident Handling™



GPEN® Penetration Tester

- Comprehensive Pen Test Planning, Scoping, and Recon
- In-Depth Scanning and Exploitation, Post-Exploitation, and Pivoting
- In-Depth Password and Domain Attacks

SANS Course: SEC560™: Enterprise Penetration Testing™



GWAPT® Web Application Penetration Tester

- Web App Pen Testing and Ethical Hacking: Configuration, Identity, and Authentication
- Injection, JavaScript, XSS, and SQL Injection
- CSRF, Logic Flaws and Tools (sqlmap™, Metasploit™, and BeEF)

SANS Course: SEC542™: Web App Penetration Testing and Ethical Hacking™



GMOB® Mobile Device Security Analyst

- Mobile Device Architecture and Common Threats (Android and iOS)
- Platform Access, Application Analysis, and Reverse Engineering
- Penetration Testing Mobile Devices: Probe Mapping, Enterprise and Network Attacks, Sidejacking, SSL/TLS Attacks, SQL, and Client-Side Injection

SANS Course: SEC575™: iOS and Android Application Security Analysis and Penetration Testing™



GXPNT™ Exploit Researcher and Advanced Penetration Tester

- Network Attacks, Cryptography and Restricted Environments
- Scapy, fuzzing, and source code analysis
- Exploiting Windows and Linux for Penetration Testers

SANS Course: SEC660™: Advanced Penetration Testing, Exploit Writing, & Ethical Hacking™



GAWN™ Assessing and Auditing Wireless Networks

- Attacking weak encryption, 802.11 fuzzing attacks, and bluetooth attacks
- Bridging the air gap, DoS on wireless networks, high-frequency RFID attacks, and RFID applications
- Sniffing wireless, wireless basics, wireless client attacks, WPA, and Zigbee

SANS Course: SEC617™: Wireless Penetration Testing and Ethical Hacking™



GCPNT™ Cloud Penetration Tester

- Cloud Penetration Testing Fundamentals, Environment Mapping, and Service Discovery
- AWS and Azure Cloud Services and Attacks
- Cloud Native Applications with Containers and CI/CD Pipeline

SANS Course: SEC588™: Cloud Penetration Testing™

Purple Team Certifications



GDAT™ Defending Advanced Threats

- Advanced Persistent Threat Models and Methods
- Detecting and Preventing Payload Deliveries, Exploitation, and Post-Exploitation Activities
- Using Cyber Deception to Gain Intelligence for Threat Hunting and Incident Response

SANS Course: SEC599™: Defeating Advanced Adversaries – Purple Team Tactics & Kill Chain Defenses™



GFACT® Foundational Cybersecurity Technologies

- Core Computing Components: Hardware and Virtualization, Networking, Operating Systems, Web, Cloud, and Data Storage
- IT Fundamentals and Concepts: Logic and Programming, Windows, and Linux
- Security Foundations and Threat Landscape: Concepts, Exploitation and Mitigation, Forensics and Post Exploitation

SANS Course: SEC275™: Foundations: Computers, Technology, & Security™

Red Team Certifications



GRTP™ Red Team Professional

- Building an adversary emulation plan using gathered threat intelligence
- Creating a comprehensive attack infrastructure
- Performing, retesting, and replaying of Red Team activities

SANS Course: SEC565™: Red Team Operations and Adversary Emulation™



GPYC® Python Coder

- Python Essentials: Variable and Math Operations, Strings and Functions, and Compound Statements
- Data Structures and Programming Concepts, Debugging, System Arguments, and Argparse
- Python Application Development for Pen Testing: Backdoors and SQL Injection

SANS Course: SEC573™: Automating Information Security with Python™

“My GIAC® penetration testing certification is important to me because just knowing or being able to read a vulnerability management tool report isn't good enough. Being able to and knowing how to exploit a vulnerability not only looks good for you, but the impact it has on the business is extremely valuable.”

– Nick Villa, GPEN®



Industrial Control Systems Certifications

Attacks on industrial control infrastructure are occurring with increasing frequency and strength. Control systems across the globe need strong infosec teams behind them to ensure these threats do not succeed. GIAC®'s industrial control systems certifications cover what ICS professionals need to know: how to protect and defend critical industrial systems and respond to incidents that will inevitably occur. By getting certified in ICS, you confirm your ability to protect essential infrastructure as well as your value to the workplace.

Industrial Control Systems Certifications



GICSP™ Global Industrial Cyber Security Professional

- Industrial Control Systems (ICS/SCADA) and Information Technology
- Defending ICS Devices, Workstations, Servers, and Networks
- ICS/SCADA Security Governance

SANS Course: ICS410™: ICS/SCADA Security Essentials™



GCIP™ Critical Infrastructure Protection

- CIP Compliance and Enforcement
- Access Controls and Vulnerability Assessments
- Incident Response and Recovery

SANS Course: ICS456™: Essentials for NERC Critical Infrastructure Protection™



GRID™ Response and Industrial Defense

- Overview and Application of Active Defense and Threat Intelligence
- Industrial Control Systems (ICS/SCADA) Digital Forensics, Incident Response, and Threat Analysis
- Monitoring and Detection, ICS/SCADA Networks and Systems

SANS Course: ICS515™: ICS Visibility, Detection, and Response™



Start Your Cyber Career with GIAC®

If you're just beginning your career in cyber security, you've come to the right place. With SANS training and GIAC® certifications, you'll learn essential, foundational skills and prove you can apply that knowledge at any enterprise. Whether you have a background in IT or no computer experience, we've got the solution you need to kick-start your cyber security career.

New to Cyber?



Foundational Cybersecurity Technologies Certification

- For students with no technical experience
- Proves a practitioner's knowledge of essential foundational computer, technology, and cybersecurity concepts
- Prepare with **SANS SEC275™: Foundations-Computers, Technology, and Security™**



Information Security Fundamentals Certification

- For students with some understanding of computers
- Proves a practitioner's knowledge of security's foundation, computers and networking, and cybersecurity technologies.
- Prepare with **SANS SEC301™: Introduction to Cybersecurity™**



Security Essentials Certification

- For students with a background in information systems and networking
- Proves a practitioner's knowledge of information security beyond simple terminology and concepts
- Prepare with **SANS SEC401™: Security Essentials: Network, Endpoint, and Cloud™**

Learn more at giac.org/certifications



Digital Forensics & Incident Response Certifications

It takes intuition and specialized skills to find hidden evidence and hunt for elusive threats. GIAC®'s Digital Forensics and Incident Response certifications encompass abilities that DFIR professionals need to succeed at their craft, confirming that professionals can detect compromised systems, identify how and when a breach occurred, understand what attackers took or changed, and successfully contain and remediate incidents. Keep your knowledge of detecting and fighting threats up to date – and your work role secure – with DFIR certifications.

Digital Forensics & Incident Response Certifications



GCCE® Forensic Examiner

- Windows Forensics and Data Triage
- Windows Registry Forensics, USB Devices, Shell Items, Email Forensics and Log Analysis
- Advanced Web Browser Forensics (Chrome, Edge, Firefox)

SANS Course: FOR500™: Windows Forensic Analysis™



GCFA® Forensic Analyst

- Advanced Incident Response and Digital Forensics
- Memory Forensics, Timeline Analysis, and Anti-Forensics Detection
- Threat Hunting and APT Intrusion Incident Response

SANS Course: FOR508™: Advanced Incident Response, Threat Hunting, and Digital Forensics™



GNFA® Network Forensic Analyst

- Network architecture, network protocols, and network protocol reverse engineering
- Encryption and encoding, NetFlow analysis and attack visualization, security event & incident logging
- Network analysis tools and usage, and open source network security proxies

SANS Course: FOR572™: Advanced Network Forensics: Threat Hunting, Analysis, and Incident Response™



GCTI® Cyber Threat Intelligence

- Strategic, Operational, and Tactical Cyber Threat Intelligence
- Open-Source Intelligence and Campaigns
- Intelligence Applications and Kill Chain

SANS Course: FOR578™: Cyber Threat Intelligence™



GASF™ Advanced Smartphone Forensics

- Fundamentals of mobile forensics and conducting forensic exams
- Device file system analysis and mobile application behavior
- Event artifact analysis and the identification and analysis of mobile device malware

SANS Course: FOR585™: Smartphone Forensic Analysis In-Depth™



GREM® Reverse Engineering Malware

- Analysis of Malicious Document Files, Analyzing Protected Executables, and Analyzing Web-Based Malware
- In-Depth Analysis of Malicious Browser Scripts and In-Depth Analysis of Malicious Executables
- Malware Analysis Using Memory Forensics and Malware Code and Behavioral Analysis Fundamentals

SANS Course: FOR610™: Reverse-Engineering Malware: Malware Analysis Tools and Techniques™



GBFA™ Battlefield Forensics and Acquisition

- Efficient data acquisition from a wide range of devices
- Rapidly producing actionable intelligence
- Manually identifying and acquiring data

SANS Course: FOR498™: Digital Acquisition and Rapid Triage™



GIME™ iOS and macOS Examiner

- Mac and iOS File Systems, System Triage, User and Application Data Analysis
- Mac and iOS Incident Response, Malware, and Intrusion Analysis
- Mac and iOS Memory Forensics and Timeline Analysis

SANS course: FOR518™: Mac and iOS Forensic Analysis and Incident Response™



GCFR™ Cloud Forensics Responder

- Log generation, collection, storage and retention in cloud environments
- Identification of malicious and anomalous activity that affect cloud resources
- Extraction of data from cloud environments for forensic investigations

SANS Course: FOR509™: Enterprise Cloud Forensics and Incident Response™



GEIR™ Enterprise Incident Responder

- enterprise-level incident response, threat detection, and advanced analysis methodologies.
- analyze artifacts across Windows, Linux, macOS, containers, and cloud environments
- large-scale event correlation, timeline analysis, and managing incident response teams.

SANS Course: FOR608™: Enterprise-Class Incident Response & Threat Hunting™



GRID™ Response and Industrial Defense

- Active Defense Concepts and Application, Detection and Analysis in an ICS environment
- Discovery and Monitoring in an ICS environment, ICS-focused Digital Forensics, and ICS-focused Incident Response
- Malware Analysis Techniques, Threat Analysis in an ICS environment, and Threat Intelligence Fundamentals

SANS Course: ICS515™: ICS Visibility, Detection, and Response™



GCIH® Certified Incident Handler Certification

- Incident Handling and Computer Crime Investigation
- Computer and Network Hacker Exploits
- Hacker Tools (Nmap, Metasploit and Netcat)

SANS Course: SEC504™: Hacker Tools, Techniques, and Incident Handling™





Cybersecurity Leadership Certifications

Enterprise security isn't just the responsibility of an organization's cybersecurity professionals. Keeping the business secure requires input from all levels of leadership. With enterprises in need of protecting against an endless and increasing onslaught of information security threats, technology management skills alone are no longer sufficient. GIAC®'s Leadership certifications confirm the practical skills to build and lead security teams, communicate with both technical teams and business leaders, and develop capabilities that strengthen your organization's security posture.

Leadership Certifications



GSLC® Security Leadership

- Building a security program that meets business needs
- Managing security operations and teams
- Managing security projects and the lifecycle of the program



SANS Course: LDR512™: Security Leadership Essentials for Managers™



GSTRT™ Strategic Planning, Policy, and Leadership

- Business and Threat Analysis
- Security Programs and Security Policy
- Effective Leadership and Communication



SANS Course: LDR514™: Security Strategic Planning, Policy, and Leadership™



GCCC® Critical Controls Certification

- Implement, track, measure, and assess CIS Controls best practices
- Prioritize controls based on evolving threats
- Understand the importance of each control



SANS Course: SEC566™: Implementing and Auditing CIS Controls™



GISP™ Information Security Professional

- Asset Security; Communications and Network Security; Software Development Security
- Identity and Access Management; Security and Risk Management
- Security Assessment and Testing; Security Engineering; Security Operation

SANS Course: LDR414™: SANS Training Program for CISSP Certification™



GSOM™ Security Operations Manager

- Designing, planning, and managing an effective SOC program
- Prioritizing and collecting logs, developing alert use cases, and response playbook generation
- Using metrics, analytics, and long-term strategy to assess and improve SOC operations

SANS Course: LDR551™: Building and Leading Security Operations Centers™



GCPM™ Project Manager

- Project Management Structure and Framework
- Time and Cost Management, Communications, and Human Resources
- Quality and Risk Management, Procurement, Stakeholder Management, and Project Integration

SANS Course: LDR525™: Managing Cybersecurity Initiatives and Effective Communication™



GCIL™ Cyber Incident Leader

- Preparing for, assessing, remediating and closing an incident
- Developing, managing and improving the IM team and process
- Identifying threats, vulnerabilities and common malicious attacks, and handling each incident type

SANS Course: LDR553™: Cyber Incident Management™

Why Renew?

Keep your certification active to stay relevant in the cybersecurity workforce!

Advanced Expertise

When you renew, you're showing yourself and others in the industry that not only do you have a certification, but you've gone above and beyond to gain advanced knowledge and experience in order to keep that certification.

Dependability

The longer your certification is active, the more years of verified knowledge and hands-on technical abilities you have. Employers value certifications, and maintaining your certification shows your employer that you're someone they can depend on.

Security

Renewing ensures your personal security knowledge, your job security, and the security of your enterprise—all in one.

Respect

Your industry peers know how much time and effort is involved in maintaining a certification, and the longer you maintain your certifications, the more you'll be recognized as an expert in your field.

* Visit www.giac.org/knowledge-base/renewal for more details.

What Counts?

GIAC® accepts many different types of CPE credits to accommodate your busy lifestyle. Combine categories to earn your 36 CPEs over four years

Up to
36 CPEs

GIAC/SANS Affiliated Programs

- Can be applied to **five certifications**
- New GIAC® Certification (Practitioner or Applied Knowledge)*
- SANS training courses, including Live and OnDemand training

Up to
36 CPEs

Advance Your Career

- Can be applied to **three certifications**
- ANAB accredited Industry Training*
- Graduate level courses
- Published technical work

Up to
18 CPEs

Other Industry Training

- Can be applied to **three certifications**
- DoD or Military Training
- Skill-based training courses
- All-day or multi-day training events & summits (virtual or in person)

Up to
12 CPEs

Community Participation

- Can be applied to **three certification**
- Participating in GIAC exam development activities
- Writing an article for an information assurance publication
- SANS Webcasts

Up to
12 CPEs

SANS NetWars

- Can be applied to **three certifications**
- NetWars Tournament
- NetWars Continuous

Up to
12 CPEs

Cyber Ranges

- Can be applied to **three certifications**
- DoD exercises
- Capture the Flag
- Other hands-on activities

Up to
12 CPEs

Work Experience

- Can be applied to **three certifications**
- Relevant experience that aligns with your certification's objectives and skillset

Securing the cloud is now essential across our global infrastructure. GIAC's cloud security certifications validate that you have the necessary skills for defending systems and applications in the cloud against the most dangerous threats. From web application security and DevOps automation to cloud-specific penetration testing – across public cloud, multi-cloud, and hybrid-cloud scenarios – we've got the credentials both professionals and organizations need to ensure cloud security at any enterprise.


Cloud Security Certifications



GWEB™ Web Application Defender

- Access Control, AJAX Technologies and Security Strategies, Security Testing, and Authentication
- Cross Origin Policy Attacks and Mitigation, CSRF, and Encryption and Protecting Sensitive Data
- Web Application and HTTP Basics, Web Architecture, Configuration, and Security


SANS Course: SEC522™: Application Security: Securing Web Apps, APIs, and Microservices™



GCSA™ Cloud Security Automation

- Using cloud services with Secure DevOps principles, practices, and tools to build & deliver secure infrastructure and software
- Automating Configuration Management, Continuous Integration, Continuous Delivery, and Continuous Monitoring
- Use of open-source tools, the Amazon Web Services toolchain, and Azure services


SANS Course: SEC540™: Cloud Security and DevSecOps Automation™



GCLD™ Cloud Security Essentials

- Evaluation of cloud service provider similarities, differences, challenges, and opportunities
- Planning, deploying, hardening, and securing single and multi-cloud environments
- Basic cloud resource auditing, security assessment, and incident response


SANS Course: SEC488™: Cloud Security Essentials™



GPCS™ Public Cloud Security

- Evaluation and comparison of public cloud service providers
- Auditing, hardening, and securing public cloud environments
- Introduction to multi-cloud compliance and integration


SANS Course: SEC510™: Cloud Security Controls and Mitigations™



GCTD™ Cloud Threat Detection

- Detecting attacks in the cloud
- Cloud investigations and cyber threat intelligence
- Assessments and automation in AWS and Azure


SANS Course: SEC541™: Cloud Security Threat Detection™



GCPN™ Cloud Penetration Tester

- Cloud Penetration Testing Fundamentals, Environment Mapping, and Service Discovery
- AWS and Azure Cloud Services and Attacks
- Cloud Native Applications with Containers and CI/CD Pipeline

SANS Course: SEC588™: Cloud Penetration Testing™



GCFR™ Cloud Forensics Responder

- Log generation, collection, storage and retention in cloud environments
- Identification of malicious and anomalous activity that affect cloud resources
- Extraction of data from cloud environments for forensic investigations

SANS Course: FOR509™: Enterprise Cloud Forensics and Incident Response™




GCAD™ Cloud Security Architecture and Design

- Identity and access management
- Design and implement Zero-Trust concepts
- Network architecture and design

SANS Course: SEC549™: Cloud Security Architecture™

Cloud Security Micro-Credential



AWS Secure Builder Micro-Credential

- Securing AWS environments, including IAM, CI/CD security, and workload hardening.
- Monitoring solutions, mitigating attack vectors, and applying incident response best practices for enhanced AWS infrastructure security
- AWS zero trust principles and supply chain security for a resilient infrastructure.

SANS Course: SEC480™: AWS Secure Builder™

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CERTIFICATIONS

Arcurs Ventures statistically profit graph and point of sales records

Company

Profit



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