

CMMC Mapping

Suggested SANS Courses and Certification



DOMAIN	MISSION	COURSE / PRODUCT	GIAC CERTIFICATION
Awareness and Training	The objective of the awareness and training domain is to educate users on common security threats, security best practices, and security policies. Training covers both privileged and non-privileged users. Privileged users receive additional role-relevant training. Security awareness training is critical as it improves user resiliency against cyber-attacks particularly social engineering attacks and insider threats.	Security Awareness Training	
		LDR433: Managing Human Risk	SSAP SANS Security Awareness Professional
Executive Cyber Exercise	The exercise is designed to immerse senior leadership (C-suite, senior managers, support function leads, technical SMEs) into a simulated major cyber-incident scenario, placing them in the midst of a “crisis” and asking them to respond, make decisions, and manage the event.	Cyber Crisis Exercise	
Incident Response	The objective of the incident response domain is for companies to establish an incident response capability, to prepare for incidents, detect, analyze, contain, recover, document, and report incidents. This involves creating an incident response plan, creating an incident response team, and testing your incident response capabilities.	FOR508: Advanced Incident Response, Threat Hunting, and Digital Forensics	GCFA GIAC Certified Forensic Analyst
		FOR572: Advanced Network Forensics: Threat Hunting, Analysis, and Incident Response	GNFA GIAC Network Forensic Analyst
Leadership	Manages an organisation’s cybersecurity strategy and its implementation to ensure that digital systems, services and assets are adequately secure and protected.	LDR514: Security Strategic Planning, Policy, and Leadership	GSTRT GIAC Strategic Planning, Policy, and Leadership
		LDR519: Cybersecurity Risk Management and Compliance	
Penetration Tester	The objective of the penetration tester domain is to assess the effectiveness of security controls, reveal and utilise cybersecurity vulnerabilities, and to assess their criticality if exploited by threat actors.	SEC504: Hacker Tools, Techniques, and Incident Handling	GCIH GIAC Certified Incident Handler
		SEC560: Enterprise Penetration Testing	GPEN GIAC Penetration Tester
Access Control	The objective of the access control domain is to limit access to your systems and data. This includes limiting persons who can log into your systems, limiting system access to authorized devices, limiting permissions so that users, devices, and processes can only access the resources they need to fulfill mission requirements. Examples of access controls include account management, separation of duties, least privilege, and session locks.	SEC530: Defensible Security Architecture and Engineering: Implementing Zero Trust for the Hybrid Enterprise	GDSA GIAC Defensible Security Architecture
Audit and Accountability	The objective of the audit and accountability domain is to record system and security logs on systems to support the monitoring, investigation, and reporting of system activity. It also seeks to ensure that system audit logs can be traced back to users so that they can be held accountable for their actions.	SEC301: Introduction to Cyber Security	GISF GIAC Information Security Fundamentals
		SEC566: Implementing and Auditing CIS Controls	GCCC GIAC Critical Controls Certification
Configuration Management	The objective of the configuration management domain is to ensure that information system components such as endpoints, network devices, cloud resources, and servers maintain secure configurations. This involves creating hardware and software inventories, creating secure baseline configurations, deploying secure baseline configurations, maintaining these baselines, and requiring information system changes to be tested and approved prior to deployment.	SEC450: SOC Analyst Training – Applied Skills for Cyber Defense Operations	GSOC GIAC Security Operations Certified
		SEC530: Defensible Security Architecture and Engineering: Implementing Zero Trust for the Hybrid Enterprise	GDSA GIAC Defensible Security Architecture
Identification and Authentication	The objective of the identification and authentication domain is to verify the identity of users and devices before granting them access to your information system. This involves creating unique user and device identifiers such as user names and computer names, requiring the use of strong passwords and multifactor authentication.	SEC401: Security Essentials – Network, Endpoint, and Cloud	GSEC GIAC Security Essentials
		SEC530: Defensible Security Architecture and Engineering: Implementing Zero Trust for the Hybrid Enterprise	GDSA GIAC Defensible Security Architecture
Maintenance	The objective of the maintenance domain is to ensure that organizations perform timely and authorized maintenance on their systems in accordance with best practices and in a manner that is conducive to security. Maintenance is performed on both hardware and software (e.g., operating systems). Maintenance involves performing preventative, corrective, and adaptive maintenance. The maintenance domain also covers the secure performance on maintenance.	SEC450: SOC Analyst Training – Applied Skills for Cyber Defense Operations	GSOC GIAC Security Operations Certified
		SEC530: Defensible Security Architecture and Engineering: Implementing Zero Trust for the Hybrid Enterprise	GDSA GIAC Defensible Security Architecture
Media Protection	The objective of the media protection domain is to protect the data stored on both digital and non-digital media from unauthorized access. Digital media includes storage devices such as hard drives and thumb drives. Non-digital media includes paper work. Media is protected by using locked containers, encryption, and proper media disposal techniques.	SEC450: SOC Analyst Training – Applied Skills for Cyber Defense Operations	GSOC GIAC Security Operations Certified
		SEC511: Cybersecurity Engineering: Advanced Threat Detection and Monitoring	GMON GIAC Continuous Monitoring Certification
Personnel Security	The goal of the personnel security domain is to minimize the risk staff pose to your assets. This includes the malicious use of their legitimate system access. Employees often have access to sensitive information. The personnel security domain seeks to ensure that your company hires trustworthy staff and follows established procedures when terminating or transferring staff.	LDR519: Cybersecurity Risk Management and Compliance	
		SEC511: Cybersecurity Engineering: Advanced Threat Detection and Monitoring	GMON GIAC Continuous Monitoring Certification
Physical Protection	The objective of the physical protection domain is to limit physical access to your facilities, systems, support infrastructure, and equipment to authorized persons. This is accomplished by using locked entrances, ID badges, security cameras, and visitor escort procedures.	LDR433: Managing Human Risk	SSAP SANS Security Awareness Professional
		SEC450: SOC Analyst Training – Applied Skills for Cyber Defense Operations	GSOC GIAC Security Operations Certified
Risk Assessment	The objective of the risk assessment domain is for companies to identify, evaluate, and manage risk. It is unrealistic to eliminate all risk, however proper risk management reduces risk. Risks are identified by performing risk assessments and are documented in a risk assessment reposition.	LDR419: Performing A Cybersecurity Risk Assessment	
		LDR519: Cybersecurity Risk Management and Compliance	
Security Assessment	The objective of the security assessment domain is for companies to periodically assess the implementation of their security practices to verify their effectiveness. Any ineffective or absent security practices are to be documented and mitigated at a later date. Security assessments often involve reviewing your system security plan.	SEC401: Security Essentials – Network, Endpoint, and Cloud	GSEC GIAC Security Essentials
		SEC566: Implementing and Auditing CIS Controls	GCCC GIAC Critical Controls Certification
System and Communications Protection	The objective of the system and communications protection domain is to provide safeguards that protect systems as well as information at rest or in transit. This domain involves the implementation of network segmentation, encrypted communications, and configuration settings limiting the use of mobile code.	SEC450: SOC Analyst Training – Applied Skills for Cyber Defense Operations	GSOC GIAC Security Operations Certified
		SEC510: Cloud Security Engineering and Controls	GPCS GIAC Public Cloud Security
System and Information Integrity	The objective of the system and information integrity domain it to assure that the information system is free of malicious code and that appropriate measures are in place to prevent the installation of malicious code. This generally involves the use of anti-malware software, intrusion detection and prevention systems, as well as vulnerability scanning.	FOR610: Reverse-Engineering Malware: Malware Analysis Tools and Techniques	GREM GIAC Reverse Engineering Malware
		SEC503: Network Monitoring and Threat Detection In-Depth	GCIA GIAC Certified Intrusion Analyst