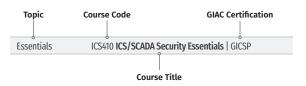
Cybersecurity Training Roadmap

SANS' comprehensive course offerings enable professionals to deepen their skills at every stage of their cybersecurity career.

COURSE LISTING KEY:



Baseline Skills

New to Cyber Security		Concepts, Terms & Skills
Cyber Security	SEC301 Introduction to Cyber Securit	v GISF

You are experienced in technology, but need to learn hands-on, essential security skills and techniques

Core Techniques Prevent, Defend & Ma		Prevent, Defend & Mainta
Every Security	Professional Should Know	
Security Essentials	SEC401 Security Essentials Bo	otcamp Style GSEC
Hacker Techniques	SEC504 Hacker Tools, Techniq and Incident Handling GCIH	ues, Exploits,

All professionals entrusted with hands-on cybersecurity work should be trained to possess a common set of capabilities enabling them to secure systems, practice defense in depth, understand how attacks work, and manage incidents when they occur. To be secure, you should set a high bar for the baseline set of skills in your security organization.

Security Ma	Security Management Managing Technical Security Operation	
Every Security	/ Manager Should Kno	DW .
Leadership Essentials	MGT512 Security Lea	dership Essentials for Managers GSLC
Critical Controls	SEC566 Implementi Controls – In-Depth	ng and Auditing the Critical Security GCCC

With an increasing number of talented technologists, organizations require effective leaders to manage their teams and processes. Those managers will not necessarily perform hands-on work, but they must know enough about the underlying technologies and frameworks to help set strategy, develop appropriate policies, interact with skilled practitioners, and measure outcomes.

Focus Job Roles

You are experienced in security, preparing for a specialized job role or focus

Monitoring 8	& Detection	Intrusion Detection & Monitoring Over Time
Scan Packets 8	k Networks	
Intrusion Detection	SEC503 Intrusi	on Detection In-Depth GCIA
Monitoring & Operations	SEC511 Continu Security Opera	ous Monitoring and ations GMON
		ening in your environment requires an

The detection of what is happening in your environment requires an increasingly sophisticated set of skills and capabilities. Identifying security anomalies requires increased depth of understanding to deploy detection and monitoring tools and to interpret their output.

Penetratio	n Testing	Vulnerability Analysis & Ethical Hacking
Every Pen Te	ster Should Know	
Networks	SEC560 Network P GPEN	enetration Testing and Ethical Hacking
Web Apps	SEC542 Web App P GWAPT	enetration Testing and Ethical Hacking
The professi	onal who can find w	eakness is often a different breed

The professional who can find weakness is often a different breed than one focused exclusively on building defenses. A basic tenet of red team/blue team deployments is that finding vulnerabilities requires different ways of thinking and different tools. Penetration testing skills are essential for defense specialists to improve their defenses.

ı	Incident R	esponse & Threat Hunting	Host & Network Forensics
l	Every Forens	sics and IR Professional Should Kno	W
	Endpoint Forensics	FOR500 Windows Forensic Analy FOR508 Advanced Incident Resp and Digital Forensics GCFA	
	Network Forensics	FOR572 Advanced Network Foren Analysis, and Incident Response	
	Whether you're seeking to maintain a trail of evidence on host or network systems, or hunting for threats using similar techniques, larger organizations need specialized professionals who can move beyond first-response incident handling in order to analyze an attack and		

develop an appropriate remediation and recovery plan.

CISSP® Training Program for CISSP® Certification | GISP

Crucial Skills, Specialized Roles

You are a candidate for advanced or specialized training

Cyber Defense Opera	ations Harden Specific Defenses
Specialized Defensive Ar	rea
Blue Team	SEC450 Blue Team Fundamentals: Security Operations and Analysis
OSINT	SEC487 Open-Source Intelligence (OSINT) Gathering & Analysis GOSI
Advanced Generalist	SEC501 Advanced Security Essentials – Enterprise Defender GCED
Windows/Powershell	SEC505 Securing Windows and PowerShell Automation GCWN
Linux/Unix Defense	SEC506 Securing Linux/Unix GCUX
SIEM	SEC555 SIEM with Tactical Analytics GCDA
Other Advanced Defense Courses	
Security Architecture	SEC530 Defensible Security Architecture and Engineering GDSA
Adversary Emulation	SEC599 Defeating Advanced Adversaries – Purple Team Tactics and Kill Chain Defenses GDAT

Specialized Penetration Testing Focused Techniques & Areas	
In-Depth Coverage	
Vulnerability Assessment	SEC460 Enterprise and Cloud Threat and Vulnerability Assessment GEVA
Networks	SEC660 Advanced Penetration Testing, Exploit Writing, and Ethical Hacking GXPN SEC760 Advanced Exploit Development for Penetration Testers
Web Apps	SEC642 Advanced Web App Testing, Ethical Hacking, and Exploitation Techniques
Mobile	SEC575 Mobile Device Security and Ethical Hacking GMOB
Cloud	SEC588 Cloud Penetration Testing
Wireless	SEC617 Wireless Penetration Testing and Ethical Hacking GAWN
Python Coding	SEC573 Automating Information Security with Python GPYC
Adversary Emulation	SEC699 Purple Team Tactics - Adversary Emulation for Breach Prevention & Detection

Digital Forensics, Mal	ware Analysis & Threat Intel Specialized Investigative Skills
Essentials	
DFIR Essentials	FOR308 Digital Forensics Essentials
Malware Analysis	
Malware Analysis	FOR610 Reverse-Engineering Malware: Malware Analysis Tools and Techniques GREM
Threat Intelligence	
Cyber Threat Intelligence	FOR578 Cyber Threat Intelligence GCTI
Digital Forensics & Media Exploitation	
Battlefield Forensics & Data Acquisition	FOR498 Battlefield Forensics & Data Acquisition GBFA
Smartphone Analysis	FOR585 Smartphone Forensic Analysis In-Depth GASF
Memory Forensics	FOR526 Advanced Memory Forensics & Threat Detection
Mac Forensics	FOR518 Mac and iOS Forensic Analysis and Incident Response

Advanced Managem	ent Advanced Leadership, Audit & Legal
Management Skills	
Planning, Policy, Leadership	MGT514 Security Strategic Planning, Policy, and Leadership GSTRT
Managing Vulnerabilities	MGT516 Managing Security Vulnerabilities: Enterprise and Cloud
Project Management	MGT525 IT Project Management, Effective Communication, and PMP® Exam Prep GCPM
Audit & Legal	
Audit & Monitor	AUD507 Auditing and Monitoring Networks, Perimeters & Systems GSNA
Law & Investigations	LEG523 Law of Data Security and Investigations GLEG

Industrial Contol Systems	
Every ICS Security	Professional Should Know
Essentials	ICS410 ICS/SCADA Security Essentials GICSP
ICS Defense & Response	ICS515 ICS Active Defense and Incident Response GRID
ICS Advanced Security	ICS612 ICS Cybersecurity In-Depth
NERC Protection	
NERC Security Essentials	ICS456 Essentials for NERC Critical Infrastructure Protection GCIP

Cloud Security		
Every Cloud Security Ops Person Should Know		
Essentials	SEC488 Cloud Security Essentials	
Secure Web Apps	SEC522 Defending Web Applications Security Essentials GWEB	
Secure DevOps	SEC540 Cloud Security and DevOps Automation GCSA	
Cloud Security	SEC545 Cloud Security Architecture and Operations	
Cloud Pen Test	SEC588 Cloud Penetration Testing	



