2024 (Feb-Mar) **SANS META Events Schedule**



Hybrid = In-Person and Live Online			CERTIFICATIONS With Remote Proctoring	AlUla February AlUla 10–15 Feb	Abu Dhabi February Abu Dhabi, AE 24–29 Feb	Riyadh February Riyadh, SA 24 Feb-7 Mar
CLOUD	SEC488	Cloud Security Essentials	GCLD			SEC488 Hybrid
ENSE	SEC401	Security Essentials: Network, Endpoint, and Cloud	GSEC			SEC401 Hybrid
CYBER DEFENSE	SEC497	Practical Open-Source Intelligence (OSINT)	GOSI			SEC497 Hybrid
СУВІ	SEC511	Continuous Monitoring and Security Operations	GMON			SEC511 Hybrid
DFIR	FOR508	Advanced Incident Response, Threat Hunting, and Digital Forensics	GCFA		FOR508 Hybrid	
ខ	ICS410	ICS/SCADA Security Essentials	GICSP		ICS410 Hybrid	
a	LDR514	Security Strategic Planning, Policy, and Leadership	GSTRT			LDR514 Hybrid
LEADERSHIP	SEC566	Implementing and Auditing CIS Controls	GCCC			SEC566 Hybrid
IE	LDR551	Building and Leading Security Operations Centers	GSOM	LDR551 Hybrid		
OFFENSIVE OPS	SEC504	Hacker Tools, Techniques, and Incident Handling	GCIH			SEC504 Hybrid
OFFEI OF	SEC560	Enterprise Penetration Testing	GPEN	SEC560 Hybrid		



SANS Training Roadmap



Baseline Skills

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Focused Job Roles

Specific Skills, Specialized Roles

EW TO CYBERS	SECURITY COMPUTERS, TECHNOLOGY, AND SECURITY	DESIGN, DETE Focused Cyber D	CTION, AND DEFENSIVE CONTROLS	ADVANCED CYB Platform-Focused	ER DEFENSE HARDEN SPECIFIC DEFENSES
NDAMENTALS	SEC275 Foundations: Computers, Technology & Security GFACT	ADVANCED	SEC501 Advanced Security Essentials – Enterprise Defender GCED	WINDOWS/	SEC505 Securing Windows and PowerShell Automation GCWN
BERSECURITY	SEC301 Introduction to Cyber Security GISF	GENERALIST		POWERSHELL Topic-Focused	Secon Securing windows and Powersheld Automation GCWW
	l courses cover a wide spectrum of security topics and are liberally al-life examples. A balanced mix of technical and managerial	& OPERATIONS SECURITY	SEC511 Continuous Monitoring and Security Operations GMON SEC530 Defensible Security Architecture and Engineering; Implementing	TRAFFIC ANALYSIS	SEC503 Network Monitoring and Threat Detection In-Depth GCIA
	se course appealing to attendees who need to understand the information security basics and the basics of risk management.	ARCHITECTURE	Zero Trust for the Hybrid Enterprise GDSA	SIEM	SEC555 SIEM with Tactical Analytics GCDA
			what is happening in your environment requires an increasingly t of skills and capabilities. Identifying security anomalies requires	POWERSHELL	SEC586 Security Automation with PowerShell SEC573 Automating Information Security with Python GPYC
	UES PREVENT, DEFEND, MAINTAIN	increased depth interpret their o	of understanding to deploy detection and monitoring tools and to utput.	PYTHON CODING	SEC673 Advanced Information Security Automation with Python
	fessional Should Know			DATA SCIENCE	SEC595 Applied Data Science and Machine Learning for Cybersecurity Professionals GMLE
IRITY NTIALS	SEC401 Security Essentials: Network, Endpoint, and Cloud GSEC	Open-Source Inte	lligence	Open-Source Intell	igence
	new to information security or a seasoned practitioner with a , SEC401 will provide the essential information security skills and	OSINT	SEC497 Practical Open-Source Intelligence (OSINT) GOSI		SEC587 Advanced Open-Source Intelligence (OSINT) Gathering & Analys
niques you n	section mit provide the essential minimation security skins and leed to protect and secure your critical information and technology on-premise or in the cloud. SECK50 Blue Team Fundamentals: Security Operations and Analysis GSOC		ERATIONS VULNERABILITY ANALYSIS, PENETRATION TESTING		FENSIVE OPERATIONS FOCUSED TECHNIQUES & AREAS
KKER	SEC504 Backer Tools, Techniques, and Incident Handling GCIH	Every Offensive I NETWORK	rofessional Should Know	Network, Web, and	Cloud SEC660 Advanced Penetration Testing, Exploit Writing,
INIQUES		PEN TESTING WEB APPS	SEC560 Enterprise Penetration Testing GPEN SEC542 Web App Penetration Testing and Ethical Hacking GWAPT	EXPLOIT DEVELOPMI	INT and Ethical Hacking GXPN SEC760 Advanced Exploit Development for Penetration Testers
ess a commo	entrusted with hands-on cybersecurity work should be trained to on set of capabilities enabling them to secure systems, practice defense in	The professiona	who can find weakness is often a different breed than one focused	CLOUD PEN TEST	SEC588 Cloud Penetration Testing GCPN
	d how attacks work, and manage incidents when they occur. To be secure, high bar for the baseline set of skills in your security organization.		ilding defenses. A basic tenet of Red Team/Blue Team deployments Inerabilities requires different ways of thinking and different tools.	Specialized Penetra SOCIAL ENGINEERIN	
	AINING FROM SANS SECURITY AWARENESS		are essential for cybersecurity professionals to improve their defenses.	BLOCKCHAIN	SEC554 Blockchain and Smart Contract Security
rity Essentials	s for IT Administrators rganization from cyber threats requires continuous investment in			RED TEAM	SEC565 Red Team Operations and Adversary Emulation GRTP SEC670 Red Teaming Tools - Developing Windows Implants, Shellcode, Command and Control
developmer	ng matching of the second seco		PONSE & THREAT HUNTING HOST & NETWORK FORENSICS Ind Incident Response Professional Should Know	MOBILE	SEC575 iOS and Android Application Security Analysis and Penetration Testing GMOB
	earning progression suited to their skillset.		FOR500 Windows Forensic Analysis GCFE	PRODUCT SECURITY	SEC568 Combating Supply Chain Attacks with Product Security Tes
ENSICS ESS	SENTIALS	ENDPOINT FORENSICS	FOR508 Advanced Incident Response, Threat Hunting, and Digital Forensics GCFA FOR532 Enterprise Memory Forensics In-Depth	PEN TEST	SEC580 Metasploit for Enterprise Penetration Testing SEC556 IoT Penetration Testing
	nd Incident Response Professional Should Know	NETWORK	FOR608 Enterprise-Class Incident Response & Threat Hunting FOR572 Advanced Network Forensics: Threat Hunting,	WIRELESS & IoT	SEC556 101 Penetration Testing SEC617 Wireless Penetration Testing and Ethical Hacking GAWN
NSICS ESSENT	TIALS FOR308 Digital Forensics Essentials	FORENSICS	Analysis, and Incident Response GNFA	Purple Team	SEC598 Security Automation for Offense, Defense, and Cloud
LEFIELD FOREN TA ACQUISITIO	NSICS NN FOR498 Battlefield Forensics & Data Acquisition GBFA	or hunting for t professionals w	seeking to maintain a trail of evidence on host or network systems, reats using similar techniques, larger organizations need specialized ho can move beyond first-response incident handling in order to k and develoo an aporopriate remediation and recovery olan.	ADVERSARY EMULAT	SEC599 Defeating Advanced Adversaries –
	ITY ESSENTIALS rity Professional Should Know		SECIIRITY		SICS, MALWARE ANALYSIS, LIGENCE SPECIALIZED INVESTIGATIVE SKILLS
INTIALS	SEC488 Cloud Security Essentials GCLD		Aore Focused Job Functions	Specialization CLOUD FORENSICS	FOR509 Enterprise Cloud Forensics & Incident Response GO
entials is a re	ocybersecurity or looking to up-skill, cloud security equirement for today's organizations. This course	PUBLIC CLOUD	SEC510 Public Cloud Security: AWS, Azure, and GCP GPCS	RANSOMWARE	FOR528 Ransomware and Cyber Extortion
	ic knowledge required to introduce students to the cloud , as well as in-depth, hands-on practice in labs.	AUTOMATION & DEVSECOPS	SEC540 Cloud Security and DevSecOps Automation GCSA	MALWARE ANALYSIS	FOR610 Reverse-Engineering Malware: Malware Analysis Tools and Techniques GREM
)UD FUNDA	MENTALS	MONITORING & DETECTION	SEC541 Cloud Security Attacker Techniques, Monitoring & Threat Detection GCTD	Threat Intelligence	FOR710 Reverse-Engineering Malware: Advanced Code Analy
lt for professi	ionals who need to be conversant in basic cloud security concepts,	ARCHITECTURE	SEC549 Enterprise Cloud Security Architecture	CYBER THREAT INTE	CODER Of the Thread Intelligences COD
RODUCTION	erms, but who are not responsible for hands-on cloud activities. SEC388 Intro to Cloud Computing and Security	to have experts	e global shift to the cloud, it becomes more critical for every organization who understand the security risks and benefits that come with public	Digital Forensics &	Media Exploitation
			to navigate and take full advantage of multicloud environments, rporate security from the start of all development projects.	SMARTPHONES	FOR585 Smartphone Forensic Analysis In-Depth GASF
	AINING FROM SANS SECURITY AWARENESS			MAC FORENSICS	FOR518 Mac and iOS Forensic Analysis and Incident Response GIME
hitects, mana	e involved in the software development process including developers, gers, testers, business owners, and partners with role-focused training In team can properly build defensible applications from the start.			LINUX FORENSICS	FOR577 Linux Incident Response & Analysis
					N IN CLOUD SECURITY dvanced Skills & Roles
USTRIAL CO	DNTROL SYSTEMS SECURITY		ONTROL SYSTEMS SECURITY	APPLICATION	SEC522 Application Security: Securing Web Apps, APIs, and Microservices GWEB
y ICS Security INTIALS	Professional Should Know ICS410 ICS/SCADA Security Essentials GICSP	Every ICS Securit	y Professional Should Know	CLOUD PEN TEST	SEC588 Cloud Penetration Testing GCPN
NTIALS	IC3410 IC3/3CADA Security Essentials GIC3P	& RESPONSE	ICS515 ICS Visibility, Detection, and Response GRID	CLOUD FORENSICS	FOR509 Enterprise Cloud Forensics and Incident Response GCFR
	DNTROL SYSTEMS SECURITY	ICS ADVANCED SECURITY	ICS612 ICS Cybersecurity In-Depth	CLOUD DESIGN & IMPLEMENTATION	LDR520 Cloud Security for Leaders
	Manager Should Know	NERC Protection			onvert traditional cybersecurity skills into the nuances of cloud sity for proper monitoring, detection, testing, and defense.
NTIALS	ICS418 ICS Security Essentials for Managers	ESSENTIALS	ICS456 Essentials for NERC Critical Infrastructure Protection GCIP	security is a neces	en proper montoring, deceduri, teating, and derellae.
					INING FROM SANS SECURITY AWARENESS
	L LEADERSHIP ty Manager Should Know	CORE LEADERS Transformational		ICS Engineer Traini Help protect critica	1g al systems by reinforcing the behavior your engineers, system
y cypersecurit		TECHNOLOGY	Cybersecurity Leader LDR512 Security Leadership Essentials for Managers GSLC		ers who interact with ICS environments require to prevent, identify a
>® TRAINING	LDR433 Managing Human Risk SSAP	LEADERSHIP			
IRITY		SECURITY STRATEGY SECURITY CULTUR	LDR514 Security Strategic Planning, Policy, and Leadership GSTRT	LEADERSHIP SP	ECIALIZATIONS
RITY RENESS an increasing	g number of talented technologists, organizations require		LDR521 Leading Cybersecurity Change: Building a Security-Based Culture	Management Speci	
RITY RENESS an increasing tive leaders f issarily perfor	to manage their teams and processes. Those leaders will not rm hands-on work, but they must know enough about the	FOR LEADERS		AUDIT & MONITOR CLOUD DESIGN &	AUD507 Auditing Systems, Applications, and the Cloud GSNA
RITY RENESS an increasing tive leaders to ssarily perfor rlying techno	to manage their teams and processes. Those leaders will not	FOR LEADERS Operational Cyber			
RITY RENESS tive leaders t essarily perfor erlying techno	to manage their teams and processes. Those leaders will not rm hands-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate	FOR LEADERS Operational Cyber VULNERABILITY MANAGEMENT	LDR516 Building and Leading Vulnerability Management Programs	IMPLEMENTATION	LDR520 Cloud Security for Leaders
RITY RENESS tive leaders t essarily perfor erlying techno	to manage their teams and processes. Those leaders will not rm hands-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate	FOR LEADERS Operational Cyber VULNERABILITY MANAGEMENT SOC	LDR516 Building and Leading Vulnerability Management Programs LDR551 Building and Leading Security Operations Centers GSOM	LAW, DATA PRIVACY, & IP	LDR523 Cybersecurity Law, Data Privacy, & Intellectual Property
RITY RENESS an increasing tive leaders to ssarily perfor erlying techno	to manage their teams and processes. Those leaders will not rm hands-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate	FOR LEADERS Operational Cyber VULNERABILITY MANAGEMENT	LDR516 Building and Leading Vulnerability Management Programs	LAW, DATA PRIVACY, & IP PROJECT MANAGEMENT	
RITY RENESS an increasing trive leaders t ssarily perfor rlying techno ties, interact t	to manage their teams and processes. Those leaders will not m hands-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate with skilled practitioners, and measure outcomes.	FOR LEADERS Operational Cyber VULNERABILITY MANAGEMENT SOC	LDR516 Building and Leading Vulnerability Management Programs LDR551 Building and Leading Security Operations Centers GSOM	LAW, DATA PRIVACY, & IP PROJECT	LDR523 Cybersecurity Law, Data Privacy, & Intellectual Property MGT525 Managing Cybersecurity Initiatives & Effective Communication
RITY RENESS an increasing tive leaders i ssarily perfor sissarily perfor sissarily perfor sissarily perfor sissarily perfor tive sissarily performant sissarily performant sissar	to manage their teams and processes. Those leaders will not m hands-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate with skilled practitioners, and measure outcomes.	FOR LEADERS Operational Cyber VULNERABILITY MANAGEMENT SOC CIS CONTROLS CYBER RANGE CYBER CYBER RANGE	LDRSIG Building and Leading Wulnerability Management Programs LDRSSI Building and Leading Security Operations Centers GSOM SEC566 Implementing and Auditing CIS Controls GCCC NetWars Cyber Defense	LAW, DATA PRIVACY, & IP PROJECT MANAGEMENT INCIDENT	LDR523 Cybersecurity Law, Data Privacy, & Intellectual Property MGT525 Managing Cybersecurity Initiatives & Effective Communication GCPM
RITY RENESS an increasing tive leaders i ssarily perfoi rying technoic ies, interact i ER RANGES & TRIVIA S SSMENT	to manage their teams and processes. Those leaders will not m handrs-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate with skilled practitioners, and measure outcomes.	FOR LEADERS Operational Cyber VULNERABILITY MANAGEMENT SOC CIS CONTROLS CYBER RANGE CYBER RANGE CYBER DEFENSE DIGITAL FORENSIC	LDRS16 Building and Leading Wulnerability Management Programs LDRS51 Building and Leading Security Operations Centers GSOM SEC566 Implementing and Auditing CIS Controls GCCC NetWars Cyber Defense S & INCIDENT RESPONSE NetWars DFIR	LAW, DATA PRIVACY, & IP PROJECT MANAGEMENT INCIDENT RESPONSE	LDRS23 Cybersecurity Law, Data Privacy, & Intellectual Property MGT525 Managing Cybersecurity Initiatives & Effective Communication CCPNI LDRS53 Cyber Incident Management
ttive leaders t sesarily perfor erlying techno cies, interact v er RANGES & TRIVIA LS SSMENT ACTICAL JCATION	to manage their teams and processes. Those leaders will not m hands-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate with skilled practitioners, and measure outcomes. Bootup CTF NetWars Core	FOR LEADERS Operational Cyber VULNERABILITY MANAGEMENT SOC CIS CONTROLS CYBER RANGE CYBER RANGE DIGITAL FORENSIC INDUSTRIAL CONT	LDRS16 Building and Leading Wulnerability Management Programs LDRS51 Building and Leading Security Operations Centers GSOM SEC566 Implementing and Auditing CIS Controls GCCC NetWars Cyber Defense S & INCIDENT RESPONSE NetWars DFIR	LAW, DATA PRIVACY, & IP PROJECT MANAGEMENT INCIDENT RESPONSE MANAGE HUMA Endl/ser Awareness	LDR523 Gybersecurity Law, Data Privacy, & Intellectual Property MGT525 Managing Gybersecurity Initiatives & Effective Communication [GCPM LDR553 Gyber Incident Management N RISK WITH TRAINING FROM SANS SECURITY AWARENESS Training
IRITY RENESS an increasing trive leaders ssarily perfor relying techno- cies, interact to rely the start RENEASS RENEASS SAMENT ACTICAL LICATION se cyber range	to manage their teams and processes. Those leaders will not m hands-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate with skilled practitioners, and measure outcomes.	FOR LEADERS Operational Cyber VILINERABILITY MANAGEMENT SOC CIS CONTROLS CYBER RANGE CYBER DEFENSE DIGITAL FORENSIG INDUSTRIAL COM POWER GENERAT SANS Offers spec	LDRSIG Building and Leading Wulnerability Management Programs LDRSI Building and Leading Security Operations Centers GSOM SEC566 Implementing and Auditing CIS Controls GCCC NetWars Cyber Defense S& INCIDENT RESPONSE NetWars D/IR ROL SYSTEMS NetWars ICS NAND DISTRUBUTION NetWars GRID Lalled versions of NetWars for more specific job roles. These	LAW, DATA PRIVACY, & IP PROJECT MANAGEMENT INCIDENT RESPONSE MANAGE HUMA EndUser Awareness Computer-based risk and complian	LDR523 Gybersecurity Law, Data Privacy, & Intellectual Property MGT525 Managing Gybersecurity Initiatives & Effective Communication [GCPM] LDR553 Gyber Incident Management N RISK WITH TRAINING FROM SANS SECURITY AWARENESS Training and-user training is built from a curated selection of the most pressi e topics to address employee security behaviors. This engaging,
IRITY RENESS an increasing trive leaders ssarily perfor relying techno- cies, interact to rely the start RENEASS RENEASS SAMENT ACTICAL LICATION se cyber range	to manage their teams and processes. Those leaders will not mandar-on work, but they must know enough about the ologies and frameworks to help set strategy, develop appropriate with skilled practitioners, and measure outcomes. Bootup CTF NetWars Core e offerings cover the broadest range of topics	FOR LEADERS Operational Cyber VILINERABILITY MANAGEMENT SOC CIS CONTROLS CYBER PRAINEE DIGITAL FORENSIC INDUSTRIAL CONT POWER GENERAT SANS Offers Spec Cyber ranges div	LDRS16 Building and Leading Wulnerability Management Programs LDRS15 Building and Leading Security Operations Centers GSOM SEC566 Implementing and Auditing CIS Controls GCCC NetWars Cyber Defense S & INCIDENT RESPONSE NetWars Cyber Defense NOL SYSTEMS NetWars ICS NA NO DISTRIBUTION NetWars GRID	LAW, DATA PRIVACY, & IP PROJECT MANAGEMENT INCIDENT RESPONSE EndUser Awareness Computer-based risk and complian modular, and mut comprehension b	LDR522 Gybersecurity Law, Data Privacy, & Intellectual Property MG1525 Managing Gybersecurity Initiatives & Effective Communication LGCPM LDR553 Gyber Incident Management NRISK WITH TRAINING FROM SANS SECURITY AWARENES Training end-user training is built from a curated selection of the most pressi

