Cybersecurity Training & Certifications

2019 EVENTS
IN THIS EDITION

Boston  
July 29 – Aug 3

Crystal City  
Aug 5-10

Security Awareness Summit  
San Diego  |  Aug 5-14

Minneapolis  
Aug 12-17

San Jose  
Aug 12-17

Supply Chain Summit  
Washington, DC  |  Aug 12-19

Chicago  
Aug 19-24

Virginia Beach  
Aug 19-30

New York City  
Aug 25-30

Tampa-Clearwater  
Aug 25-30

*Network Security  
Las Vegas  |  Sep 9-16

Oil & Gas Summit  
Houston  |  Sep 16-22

Raleigh  
Sep 16-21

*View course lineup online

www.sans.org/live-training

SANS is by far the best InfoSec training available in the world. Every instructor at SANS is a straight up superstar! The knowledge I gained is invaluable not only to my career but to any company that employs me.

-Brian B., West Virginia State Treasurer’s Office
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Courses are subject to change. Please visit www.sans.org for the most up-to-date information.
At the SANS Institute, our mission is to deliver the cutting-edge information security knowledge and skills that companies, military organizations, and governments need to protect their people and assets.

**TRAINING ON THE CUTTING EDGE**

SANS offers more than 65 unique courses, all designed to align with dominant security team roles, duties, and disciplines. Our courses prepare students to face today’s threats and tomorrow’s challenges.

The SANS curriculum spans the full range of cybersecurity fields, including Cyber Defense, Penetration Testing & Ethical Hacking, Digital Forensics & Incident Response, Threat Hunting, Audit, Management, Critical Infrastructure and Control Systems Security, Secure Software Development, and more.

In SANS courses, students are immersed in hands-on lab exercises designed to help them practice, hone, and perfect what they’ve learned. We constantly update and rewrite our courses to ensure that the tools and techniques we’re teaching are always current and on the cutting edge.

**LEARN FROM THE BEST**

The SANS faculty is simply unmatched. All of our instructors are active security practitioners who bring their extensive knowledge and real-world experiences directly to the classroom.

SANS instructors work for high-profile organizations as red team leaders, CISOs, technical directors, and research fellows. In addition to their respected technical credentials, they’re also expert teachers. Their passion for the topics they teach shines through, making the SANS classroom—both live and online—dynamic and effective.

**RECOGNIZED AS A SUPERIOR INVESTMENT**

Information security professionals from every member of the Fortune 100, and from small and mid-sized firms alike, say they return to SANS training again and again because they trust their training will result in practical and high-quality capabilities. SANS training is also embedded in government and military programs in the United States and its allies around the world for the same reason.

Customer feedback drives our continuous effort to maintain the quality and impact of SANS training so that we continue to deserve your trust.

**GIAC CERTIFICATION**

GIAC certifications are designed to ensure that students can apply their knowledge and skills in a real-world setting. More than 30 certifications align with SANS training courses, validating student mastery for professional use in critical, specialized InfoSec domains and job-specific roles. See www.giac.org for more information.

**A TRAINING FORMAT FOR EVERY STUDENT**

SANS holds more than 300 live training events around the world each year, so you can find a convenient time and place to take your course. These events provide an engaging learning environment and multiple opportunities to network with other security professionals and with SANS instructors and staff.

SANS training is also offered online, with several convenient options to suit your learning style. All of our online courses include at least four months of access to the course material, so students can revisit and rewind content anytime, anywhere.

**THE SANS PROMISE**

At the heart of everything we do is the SANS Promise: Students will be able to use their new skills as soon as they return to work.

**REGISTER FOR SANS TRAINING**

Learn more about SANS courses, and register online, at www.sans.org.
SANS Faculty

“SANS instructors are the best in the game. Their technical knowledge combined with presentation skills and real-world examples make for an unparalleled training experience. SANS rocks!”
-Chris Gergen, Bank of North Dakota

At SANS, our course authors and instructors are renowned cybersecurity experts who share their knowledge by drawing on their own real-world examples and top-shelf curriculum. Industry professionals choose SANS training again and again, year after year, for access to these highly regarded experts.

There are only about 100 individuals in the world currently qualified as SANS Certified Instructors. Each is selected after proving his or her technical and teaching expertise through years of work and success. The instructors are the founders of international cybersecurity organizations, authors of best-selling books, and developers of the world’s most advanced cyber ranges and Capture-the-Flag challenges. Many are regularly called upon to share their expertise with government and commercial organizations around the world.

In addition to their impressive résumés, every member of the SANS faculty is fully committed to providing the most comprehensive training possible. Our instructors do more than just stand in front of a classroom—they’re present for their students every step of the way, with follow-ups, webcasts, mentoring, and more. Their goal is your success, and that dedication is what truly sets SANS training apart from all the rest.

Whether you train with SANS online or at one of our live events, we promise you’ll be able to apply what you learn from these top-tier instructors as soon as you return to work.

Meet the SANS faculty: www.sans.org/instructors
Write a formal request

- All organizations are different, but because training requires a significant investment of both time and money, most successful training requests justify the need and benefit in writing (via a short memo and/or a few PowerPoint slides).
- Provide all the necessary information in one place, including copies of the Training Roadmap, instructor bio, and a list of additional benefits offered at our live events or online.

Be specific

- How does the course relate to the job you need to be doing? Are you establishing baseline skills? Transitioning to a more focused role? Decision-makers need to understand the plan and context.
- Highlight the specifics of what you’ll be able to do after training. Each SANS course description includes a section titled “You Will Be Able To.” Be sure to include this in your request to make the benefits clear. The clearer the match between the training and what you need to do at work, the better.

Establish longer-term expectations

- Information security is a specialized career path within IT, with practices that evolve as attacks change. Because of this, organizations should expect to spend 6%-10% of salaries to keep professionals current and improve their skills. Training for such a dynamic field is an annual, per-person expense—not a once-and-done item.
- Take a GIAC Certification exam to prove the training worked. Employers value the validation of skills and knowledge that a GIAC Certification provides. Exams are psychometrically designed to establish competency for related job tasks.
- Consider offering trade-offs for the investment. Many professionals build annual training expenses into their employment agreements even before joining a company. Some offer to stay for a year after they complete the training.
Extend and Validate Your Training

Add an OnDemand Bundle OR GIAC Certification Attempt to your course within seven days of this event to get bundle pricing.*

Extend Your Training Experience with an OnDemand Bundle

- Four months of supplemental online review
- 24/7 online access to your course lectures, materials, quizzes, and labs
- Subject-matter-expert support to help you increase your retention of course material

OnDemand Bundle price – $769

“The course content and OnDemand delivery method have both exceeded my expectations.”

-ROBERT JONES, TEAM JONES, INC.

Get Certified with GIAC Certifications

- Distinguish yourself as an information security leader
- 30+ GIAC cybersecurity certifications available
- Two practice exams included
- Four months of access to complete the attempt

GIAC Bundle price – $769

“GIAC is the only certification that proves you have hands-on technical skills.”

-CHRISTINA FORD, DEPARTMENT OF COMMERCE

More Information

www.sans.org/ondemand/bundles  |  www.giac.org

*GIAC and OnDemand Bundles are only available for certain courses.
Experience NetWars at:

**Virginia Beach 2019**
Thu, Aug 22 & Fri, Aug 23
Core NetWars
Wed, Aug 28 & Thu, Aug 29
Core NetWars

**Oil & Gas Cybersecurity Summit 2019**
Thu, Sep 19 & Fri, Sep 20
Grid NetWars

Develop skills in:
- Cyber Defense
- Penetration Testing
- ICS/SCADA Security

Participation in NetWars is free for students taking 4-, 5-, or 6-day courses.

NetWars takes place in the evening, after class, and gives you an immediate opportunity to apply what you’ve learned in a fun, competitive, hands-on, and educational environment!

Seating is limited, so add NetWars when you register for your course.

“NetWars takes the concepts in the class and gives you an opportunity to put them into action. Highly recommended!” — Kyle McDaniel, Lenovo

Play solo or on a team of up to five players

www.sans.org/netwars
"As a security manager of many years, this training delivered material of great value that I can immediately apply to make a difference at my company."

-Dave Ferguson, CareFirst, Inc.

Courses and Certifications Offered

SEC301: Introduction to Cyber Security
   GIAC Information Security Fundamentals (GISF)

SEC401: Security Essentials Bootcamp Style
   GIAC Security Essentials (GSEC)

SEC503: Intrusion Detection In-Depth
   GIAC Certified Intrusion Analyst (GCIA)

SEC504: Hacker Tools, Techniques, Exploits, and Incident Handling
   GIAC Certified Incident Handler (GCIH)

SEC505: Securing Windows and PowerShell Automation
   GIAC Certified Windows Security Administrator (GCWN)

SEC504: Cloud Security and DevOps Automation

SEC555: SIEM with Tactical Analytics
   GIAC Certified Detection Analyst (GCDA)

SEC599: Defeating Advanced Adversaries – Purple Team Tactics & Kill Chain Defenses
   GIAC Defending Advanced Threats (GDAT)

MGT414: SANS Training Program for CISSP® Certification
   GIAC Information Security Professional (GISP)

MGT512: Security Leadership Essentials for Managers
   GIAC Security Leadership (GSLC)
"SANS training is like a high-intensity, action-packed, thriller movie! So much coming at you but you get to soak it all in. Exceptional content, tools, and instructors that nurture learning through hands-on help, questions, and lecture."
- Ryan Baisley, Ogletree Deakins

Courses and Certifications Offered

SEC401: Security Essentials Bootcamp Style
GIAC Security Essentials (GSEC)

SEC487: Open-Source Intelligence (OSINT) Gathering and Analysis

SEC504: Hacker Tools, Techniques, Exploits, and Incident Handling
GIAC Certified Incident Handler (GCIH)

SEC530: Defensible Security Architecture and Engineering
GIAC Defensible Security Architecture (GDSA)

SEC560: Network Penetration Testing and Ethical Hacking
GIAC Penetration Tester (GPEN)

SEC599: Defeating Advanced Adversaries – Purple Team Tactics & Kill Chain Defenses
GIAC Defending Advanced Threats (GDAT)

LEG523: Law of Data Security and Investigations
GIAC Law of Data Security & Investigations (GLEG)

Instructor Biographies

Hotel Information

Renaissance Arlington Capital View Hotel
$179 per night through July 17, 2019
It is fantastic to be able to network and compare notes with peers and security awareness professionals. This was my first summit and I hope to attend again. It also provided me with a wealth of knowledge, free resources, and effective techniques.”

-Diane Desaulniers, Johnson and Johnson

Security Awareness Summit

The sixth annual Security Awareness Summit is the very best forum for security awareness professionals looking to take their program to the next level! The Summit will provide you with actionable lessons that you can take back to work and apply right away, with a focus on your industry, employee base, and current maturity level.

The Summit will feature:
• In-depth presentations and interactive workshops
• Video Wars competition
• Show-and-Tell booths
• Onsite networking lunches and evening socials
• Optional third-day workshop

Courses and Certifications Offered

MGT433: SANS Security Awareness: How to Build, Maintain, and Measure a Mature Awareness Program

SEC301: Introduction to Cyber Security
GIAC Information Security Fundamentals (GISF)

SEC440: Critical Security Controls: Planning, Implementing, and Auditing

SEC487: Open-Source Intelligence (OSINT) Gathering and Analysis

MGT512: Security Leadership Essentials for Managers
GIAC Security Leadership (GSLC)

“It is fantastic to be able to network and compare notes with peers and security awareness professionals. This was my first summit and I hope to attend again. It also provided me with a wealth of knowledge, free resources, and effective techniques.”

-Diane Desaulniers, Johnson and Johnson

Instructor Biographies

www.sans.org/SecAware-Instructors

Hotel Information

Hilton San Diego Resort & Spa
$249 per night through July 15, 2019
“SANS training keeps individuals up to date with relevant cybersecurity information. I can now apply the skills learned towards further maturing my program.”

-Nicholas Marriott, Pfizer

Courses and Certifications Offered

SEC401: Security Essentials Bootcamp Style (GSEC)
SEC504: Hacker Tools, Techniques, Exploits, and Incident Handling
SEC555: SIEM with Tactical Analytics (GCDA)
SEC560: Network Penetration Testing and Ethical Hacking
SEC566: Implementing and Auditing the Critical Security Controls – In-Depth (GCCC)
FOR508: Advanced Incident Response, Threat Hunting, and Digital Forensics NEW!
FOR572: Advanced Network Forensics: Threat Hunting, Analysis, and Incident Response NEW
MGT414: SANS Training Program for CISSP® Certification
MGT514: Security Strategic Planning, Policy, and Leadership

This course is also available via remote Simulcast

Instructor Biographies

www.sans.org/minneapolis/instructors

Hotel Information

Hyatt Regency Minneapolis
$189 per night through July 22, 2019

Courses are subject to change. Please visit www.sans.org for the most up-to-date information.
“Attending SANS training is an awesome way to meet new people who are focused on learning the same material. Being able to work with peers in an academic environment simply equates to success on all sides of the equation.”

-Chase Johnson, TDi Technologies

Courses and Certifications Offered

SEC401: Security Essentials Bootcamp Style
GIAC Security Essentials (GSEC)

SEC540: Cloud Security and DevOps Automation

SEC575: Mobile Device Security and Ethical Hacking
GIAC Mobile Device Security Analyst (GMOB)

SEC599: Defeating Advanced Adversaries – Purple Team Tactics & Kill Chain Defenses
GIAC Defending Advanced Threats (GDAT)

SEC642: Advanced Web App Penetration Testing, Ethical Hacking, and Exploitation Techniques

MGT414: SANS Training Program for CISSP® Certification
GIAC Information Security Professional (GISP)

(This course IS also available via remote Simulcast)

Early Bird Discounts
Use code EarlyBird19
Pay by June 19 to receive $350 off
Pay by July 10 to receive $200 off

Instructor Biographies

www.sans.org/san-jose/instructors

Hotel Information

DoubleTree by Hilton San Jose
$225 per night through July 19, 2019

Courses are subject to change. Please visit www.sans.org for the most up-to-date information.
Supply Chain Cybersecurity Summit & Training
www.sans.org/SupplyChain  |  #SupplyChainSummit

Early Bird Discounts
Use code EarlyBird19
Pay by June 26 to receive $350 off
Pay by July 10 to receive $200 off
Save $400 when you register for the Summit and a course

Supply Chain Cybersecurity Summit
Your supply chain is an overlooked threat vector.
Learn how to better defend products, networks, and data from supply chain attacks at this inaugural Summit. Leading experts will draw upon their own experiences and recent notable breaches as they provide concrete strategies and tools that can be used to assess, detect, and resolve third-party vulnerabilities.

Courses and Certifications Offered

GIAC Certified Enterprise Defender (GCED)

SEC542: Web App Penetration Testing and Ethical Hacking
GIAC Web Application Penetration Tester (GWAPT)

DEV522: Defending Web Applications Security Essentials
GIAC Certified Web Application Defender (GWEB)

AUD507: Auditing & Monitoring Networks, Perimeters, and Systems
GIAC Systems and Network Auditor (GSNA)

“If you haven’t attended a SANS Summit, it’s hard to understand the immense value.”
-Jason Nickola, DTS

Instructor Biographies
www.sans.org/supply-chain-instructors

Hotel Information
The Westin Arlington Gateway
$149 per night through July 19, 2019

Courses are subject to change. Please visit www.sans.org for the most up-to-date information.
Early Bird Discounts
Use code EarlyBird19
Pay by June 26 to receive $350 off
Pay by July 17 to receive $200 off

Courses and Certifications Offered

SEC301: Introduction to Cyber Security
GIAC Information Security Fundamentals (GISF)

SEC401: Security Essentials Bootcamp Style
GIAC Security Essentials (GSEC)

SEC503: Intrusion Detection In-Depth
GIAC Certified Intrusion Analyst (GCIA)

SEC504: Hacker Tools, Techniques, Exploits, and Incident Handling
GIAC Certified Incident Handler (GCIH)

SEC511: Continuous Monitoring and Security Operations
GIAC Continuous Monitoring Certification (GMON)

SEC542: Web App Penetration Testing and Ethical Hacking
GIAC Web Application Penetration Tester (GWAPT)

SEC545: Cloud Security Architecture and Operations

SEC599: Defeating Advanced Adversaries – Purple Team Tactics & Kill Chain Defenses
GIAC Defending Advanced Threats (GDAT)

FOR500: Windows Forensic Analysis
GIAC Certified Forensic Examiner (GCFE)

FOR578: Cyber Threat Intelligence
GIAC Cyber Threat Intelligence (GCTI)

“SANS training is like no other out there. The instructors do an AMAZING job teaching the topics in an engaging manner and really firing you up about information security.”
-Sydney Howard, Nordstrom

Instructor Biographies
www.sans.org/chicago/instructors

Hotel Information
Embassy Suites Chicago Downtown Magnificent Mile
$197 per night through July 28, 2019
Courses and Certifications Offered

SEC301: Introduction to Cyber Security
GIAC Information Security Fundamentals (GISF)

SEC401: Security Essentials Bootcamp Style
GIAC Security Essentials (GSEC)

SEC487: Open-Source Intelligence (OSINT) Gathering and Analysis

GIAC Certified Enterprise Defender (GCED)

SEC504: Hacker Tools, Techniques, Exploits, and Incident Handling
GIAC Certified Incident Handler (GCIH)

SEC511: Continuous Monitoring and Security Operations
GIAC Continuous Monitoring Certification (GMON)

SEC530: Defensible Security Architecture and Engineering
GIAC Defensible Security Architecture (GDSA)

SEC545: Cloud Security Architecture and Operations

SEC555: SIEM with Tactical Analytics
GIAC Certified Detection Analyst (GCDA)

SEC560: Network Penetration Testing and Ethical Hacking
GIAC Penetration Tester (GPEN)

SEC599: Defeating Advanced Adversaries – Purple Team Tactics & Kill Chain Defenses
GIAC Defending Advanced Threats (GDAT)

SEC573: Automating Information Security with Python
GIAC Python Coder (GPYC)

FOR508: Advanced Incident Response, Threat Hunting, and Digital Forensics | NEW
GIAC Certified Forensic Analyst (GCFE)

FOR585: Smartphone Forensic Analysis In-Depth
GIAC Advanced Smartphone Forensics (GASF)

MGT414: SANS Training Program for CISSP® Certification
GIAC Information Security Professional (GISP)

MGT512: Security Leadership Essentials for Managers
GIAC Security Leadership (GSLC)

MGT514: Security Strategic Planning, Policy, and Leadership
GIAC Strategic Planning, Policy, and Leadership (GSTRT)

Instructor Biographies

www.sans.org/virginia-beach/instructors

Hotel Information

Hilton Virginia Beach Oceanfront
$207 per night through July 19, 2019
Early Bird Discounts
Use code EarlyBird19
Pay by July 3 to receive $350 off
Pay by July 24 to receive $200 off

Courses and Certifications Offered

SEC401: Security Essentials Bootcamp Style
GIAC Security Essentials (GSEC)

SEC504: Hacker Tools, Techniques, Exploits, and Incident Handling
GIAC Certified Incident Handler (GCIH)

SEC530: Defensible Security Architecture and Engineering
GIAC Defensible Security Architecture (GDSA)

SEC542: Web App Penetration Testing and Ethical Hacking
GIAC Web Application Penetration Tester (GWAPT)

SEC545: Cloud Security Architecture and Operations

FOR508: Advanced Incident Response, Threat Hunting, and Digital Forensics | NEW
GIAC Certified Forensic Analyst (GCFA)

FOR610: Reverse-Engineering Malware: Malware Analysis Tools and Techniques
GIAC Reverse Engineering Malware (GREM)

MGT512: Security Leadership Essentials for Managers
GIAC Security Leadership (GSLC)

ICS456: Essentials for NERC Critical Infrastructure Protection
GIAC Critical Infrastructure Protection (GCIP)

“In the best part of SANS training is the absolute knowledge of the instructors. They bring real-world examples to the forefront and have their thumb on the pulse of current tactics used by attackers.”
-Jessie Prevost, Trend Micro

Instructor Biographies
www.sans.org/new-york-city-summer/instructors

Hotel Information
Crowne Plaza Times Square Manhattan
$220 per night through August 5, 2019

Courses are subject to change. Please visit www.sans.org for the most up-to-date information.
**Courses and Certifications Offered**

SEC401: **Security Essentials Bootcamp Style**  
GIAC Security Essentials (GSEC)

SEC460: **Enterprise Threat and Vulnerability Assessment**

SEC487: **Open-Source Intelligence (OSINT) Gathering and Analysis**

SEC504: **Hacker Tools, Techniques, Exploits, and Incident Handling**  
GIAC Certified Incident Handler (GCIH)

SEC560: **Network Penetration Testing and Ethical Hacking**  
GIAC Penetration Tester (GPEN)

SEC566: **Implementing and Auditing the Critical Security Controls – In-Depth**  
GIAC Critical Controls Certification (GCCC)

FOR500: **Windows Forensic Analysis**  
GIAC Certified Forensic Examiner (GCFE)

“No matter how knowledgeable you feel, you can always learn something new in this constantly-evolving environment. The real-life examples and advice from SANS instructors is always invaluable. The training increased my own job effectiveness as it forced me to think beyond my routine approaches and point of view, allowing me to offer more value to my business partners.”

-Brian McCaffery, Elanco

**Early Bird Discounts**  
Use code **EarlyBird19**

Pay by **July 3** to receive $350 off  
Pay by **July 24** to receive $200 off

**Instructor Biographies**

[www.sans.org/tampa-clearwater/instructors](www.sans.org/tampa-clearwater/instructors)

**Hotel Information**

Hyatt Regency Clearwater Beach Resort & Spa  
$199 per night through August 2, 2019

Courses are subject to change. Please visit [www.sans.org](www.sans.org) for the most up-to-date information.
Oil & Gas Cybersecurity Summit & Training
Houston, TX  |  SUMMIT: Sep 16  |  TRAINING: Sep 17-22
www.sans.org/oil-gas
#OilGasSummit

Early Bird Discounts
Pay by July 31 to receive $350 off
Pay by August 21 to receive $200 off
Save $350 when you register for the Summit and a course

Oil & Gas Cybersecurity Summit
Learn to better defend critical assets.
This Summit brings leading experts together to discuss oil and gas industry trends, challenges, and opportunities. They’ll address recent attacks and current threats, integrated IT/OT security operations, best practices, and lessons learned to benefit the community.

Courses and Certifications Offered
ICS410: ICS/SCADA Security Essentials
Global Industrial Cyber Security Professional (GICSP)
ICS456: Essentials for NERC Critical Infrastructure Protection
GIAC Critical Infrastructure Protection (GCIP)
ICS515: ICS Active Defense and Incident Response
GIAC Response and Industrial Defense (GRID)
SEC560: Network Penetration Testing and Ethical Hacking
GIAC Penetration Tester (GPEN)
HOSTED: Assessing and Exploiting Control Systems

“It really helped to hear the alternative perspectives from others and to know that others are fighting the same battles that we are.”
-Steve Weisner, Encana Corporation

Instructor Biographies
www.sans.org/oil-gas-summit/instructors

Hotel Information
Royal Sonesta Hotel Houston
$159 per night through August 23, 2019

Courses are subject to change. Please visit www.sans.org for the most up-to-date information.
Courses and Certifications Offered

SEC401: Security Essentials Bootcamp Style
GIAC Security Essentials (GSEC)

SEC504: Hacker Tools, Techniques, Exploits, and Incident Handling
GIAC Certified Incident Handler (GCIH)

SEC511: Continuous Monitoring and Security Operations
GIAC Continuous Monitoring Certification (GMON)

SEC542: Web App Penetration Testing and Ethical Hacking
GIAC Web Application Penetration Tester (GWAPT)

SEC555: SIEM with Tactical Analytics
GIAC Certified Detection Analyst (GCDA)

SEC560: Network Penetration Testing and Ethical Hacking
GIAC Penetration Tester (GPEN)

FOR572: Advanced Network Forensics: Threat Hunting, Analysis, and Incident Response | NEW
GIAC Network Forensic Analyst (GNFA)

“SANS events are some of my favorite things. They have great instructors, material, and more to ensure you get the greatest value out of an event. I highly recommend seeking the training you need from SANS, and do it in person when possible, because it’s a great experience all around!”

-Dan S., U.S. Federal Government

Instructor Biographies
www.sans.org/raleigh/instructors

Hotel Information
Hilton Raleigh North Hills
$169 per night through August 23, 2019

Courses are subject to change. Please visit www.sans.org for the most up-to-date information.
Community SANS offers our most popular security courses in a small classroom setting in your own community – most courses have fewer than 25 students. The course material is delivered over a six-day period, just like it is at a larger SANS event, by instructors trained by SANS very best authors and instructors.

### Training Events, Courses, and Certifications Offered

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Location</th>
<th>Dates</th>
<th>Certification(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC511</td>
<td>Continuous Monitoring and Security Operations</td>
<td>New York, NY</td>
<td>August 5-10</td>
<td>GIAC Continuous Monitoring Certification (GMON)</td>
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<tr>
<td>SEC301</td>
<td>Introduction to Cyber Security</td>
<td>Miami, FL</td>
<td>August 12-16</td>
<td>GIAC Information Security Fundamentals (GISF)</td>
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<tr>
<td>SEC301</td>
<td>Introduction to Cyber Security</td>
<td>Tulsa, OK</td>
<td>August 12-16</td>
<td>GIAC Information Security Fundamentals (GISF)</td>
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<tr>
<td>SEC545</td>
<td>Cloud Security Architecture and Operations</td>
<td>Kansas City, KS</td>
<td>July 29 – August 2</td>
<td>NEW</td>
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<td>SEC540</td>
<td>Cloud Security and DevOps Automation</td>
<td>Portland, OR</td>
<td>September 23-27</td>
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<tr>
<td>SEC504</td>
<td>Hacker Tools, Techniques, Exploits, and Incident Handling</td>
<td>Phoenix, AZ</td>
<td>September 23-28</td>
<td>GIAC Certified Incident Handler (GCIH)</td>
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<tr>
<td>SEC503</td>
<td>Intrusion Detection In-Depth</td>
<td>Seattle, WA</td>
<td>August 19-24</td>
<td>GIAC Certified Intrusion Analyst (GCIA)</td>
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<tr>
<td>MGT414</td>
<td>SANS Training Program for CISSP® Certification</td>
<td>Chicago, IL</td>
<td>August 12-17</td>
<td>GIAC Security Essentials (GSEC)</td>
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<tr>
<td>MGT414</td>
<td>SANS Training Program for CISSP® Certification</td>
<td>St. Louis, MO</td>
<td>August 19-24</td>
<td>GIAC Information Security Professional (GISP)</td>
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<tr>
<td>SEC487</td>
<td>Open-Source Intelligence (OSINT) Gathering and Analysis</td>
<td>Ottawa, ON</td>
<td>September 16-21</td>
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<tr>
<td>FOR500</td>
<td>Windows Forensic Analysis</td>
<td>Tempe, AZ</td>
<td>September 22-27</td>
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<tr>
<td>SEC401</td>
<td>Security Essentials Bootcamp Style</td>
<td>Vancouver, BC</td>
<td>September 23-28</td>
<td>GIAC Security Essentials (GSEC)</td>
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<td>SEC503</td>
<td>Intrusion Detection In-Depth</td>
<td>New York, NY</td>
<td>September 23-28</td>
<td>GIAC Certified Intrusion Analyst (GCIA)</td>
</tr>
</tbody>
</table>

Courses are subject to change. Please visit [www.sans.org](http://www.sans.org) for the most up-to-date information.
Giac Certifications, the leading cybersecurity professional credential, uses real-life information security challenges to vet the true ability of an InfoSec professional’s expertise. Enhanced and specialized performance-based testing sets Giac Certifications apart from other broad-scope certification competitors in cybersecurity.

“You 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, Cyber Intelligence Analyst

SANS Simulcast

You can attend live SANS courses remotely with Simulcast

Here are some benefits of taking your SANS training on the Simulcast platform:

• Dedicated, pre-event setup support so you are ready for class on day 1
• You can complete your course in one week through live, scheduled daytime sessions with SANS Certified Instructors
• In-class moderators who actively convey your questions to the instructor and ensure an interactive experience
• Teaching assistants available to support complex content and lab questions during your training sessions
• No travel, which extends training dollars and saves time
• The same instruction and learning outcomes as live training, with an additional four months of online access to recordings and virtual labs to absorb the course content

Register now at www.sans.org/simulcast/courses
## Future Community SANS Events

Local, single-course events are also offered throughout the year via SANS Community. Visit [www.sans.org/community](http://www.sans.org/community) for up-to-date Community course information.

### 2019 Training Events

See [www.sans.org](http://www.sans.org) for more information.

<table>
<thead>
<tr>
<th>Event</th>
<th>City</th>
<th>State</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kansas City</td>
<td>Kansas City, MO</td>
<td></td>
<td>Jun 10-15</td>
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<tr>
<td><strong>SANSFIRE</strong></td>
<td>Washington, DC</td>
<td>Jun 15-22</td>
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<tr>
<td>Charlotte</td>
<td>Charlotte, NC</td>
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<td>Jul 8-13</td>
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<tr>
<td>Pittsburgh</td>
<td>Pittsburgh, PA</td>
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<td>Jul 8-13</td>
</tr>
<tr>
<td>Columbia</td>
<td>Columbia, MD</td>
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<td>Jul 15-20</td>
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<tr>
<td>Rocky Mountain</td>
<td>Denver, CO</td>
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<td>Jul 15-20</td>
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<tr>
<td>San Francisco Summer</td>
<td>San Francisco, CA</td>
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<td>Jul 22-27</td>
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<tr>
<td>Boston Summer</td>
<td>Boston, MA</td>
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<td>Jul 29 – Aug 3</td>
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<tr>
<td>Crystal City</td>
<td>Arlington, VA</td>
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<td>Aug 5-10</td>
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<tr>
<td>San Jose</td>
<td>San Jose, CA</td>
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<td>Aug 12-17</td>
</tr>
<tr>
<td>Minneapolis</td>
<td>Minneapolis, MN</td>
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<td>Aug 12-17</td>
</tr>
<tr>
<td>Chicago</td>
<td>Chicago, IL</td>
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<td>Aug 19-24</td>
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<tr>
<td>Virginia Beach</td>
<td>Virginia Beach, VA</td>
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<td>Aug 19-30</td>
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<tr>
<td>New York City</td>
<td>New York, NY</td>
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<td>Aug 25-30</td>
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<tr>
<td>Tampa-Clearwater</td>
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<td>Aug 25-30</td>
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### 2019 Summit Events

<table>
<thead>
<tr>
<th>Event</th>
<th>City</th>
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<tbody>
<tr>
<td>Network Security</td>
<td>Las Vegas, NV</td>
<td>Sep 9-16</td>
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<tr>
<td>Raleigh</td>
<td>Raleigh, NC</td>
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<td>Sep 16-21</td>
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<tr>
<td>Dallas Fall</td>
<td>Dallas, TX</td>
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<td>Sep 23-28</td>
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<tr>
<td>San Francisco Fall</td>
<td>San Francisco, CA</td>
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<td>Sep 23-28</td>
</tr>
<tr>
<td>Northern VA Fall – Reston</td>
<td>Reston, VA</td>
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<td>Sep 30 – Oct 5</td>
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<td>Baltimore Fall</td>
<td>Baltimore, MD</td>
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<td>Oct 7-12</td>
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<td>San Diego</td>
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<td>Oct 7-12</td>
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<tr>
<td>Denver</td>
<td>Denver, CO</td>
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<td>Oct 14-19</td>
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<tr>
<td>Seattle Fall</td>
<td>Seattle, WA</td>
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<td>Oct 14-19</td>
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<th>Event</th>
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<tbody>
<tr>
<td>Digital Forensics &amp; Incident Response</td>
<td>Austin, TX</td>
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<td>Jul 25 – Aug 1</td>
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<tr>
<td>Security Awareness</td>
<td>San Diego, CA</td>
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<td>Aug 5-14</td>
</tr>
<tr>
<td>Supply Chain Cybersecurity</td>
<td>Washington, DC</td>
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<td>Aug 12-19</td>
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<tr>
<td>Oil &amp; Gas Cybersecurity</td>
<td>Houston, TX</td>
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<td>Sep 16-22</td>
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<tr>
<td>Threat Hunting &amp; Incident Response</td>
<td>New Orleans, LA</td>
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<td>Sep 30 – Oct 7</td>
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<td>SIEM</td>
<td>Chicago, IL</td>
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<td>Oct 7-14</td>
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<td>Purple Team</td>
<td>Dallas, TX</td>
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<td>Cloud &amp; DevOps Security</td>
<td>Denver, CO</td>
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<td>Nov 4-11</td>
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