Wow. This is the BEST training I have EVER encountered.
—Stanley de Jager, Symantec

Online Training Course Catalog

Accelerate Your Career
With Training from the Most Trusted Name in
Computer Security Education, Certification and Research

— 2015 —

“Wow. This is the BEST training I have EVER encountered.”
—Stanley de Jager, Symantec

SPECIAL OFFERS available now at
www.sans.org/online-security-training/specials

IT Security Training Roadmap Inside
SANS Online Training includes four formats that allow you to choose the workflow, interaction and speed of training that you prefer.

Whether you choose to use OnDemand, vLive, Simulcast or SelfStudy to complete your SANS training online, the benefits of SANS online training always include:

- No Travel: Train from anywhere in the world
- Instruction from SANS’ top instructors
- Online access to your course materials, labs and instructor lectures
- All of the same printed course materials as live courses
- Subject-Matter Expert support to assist you with course content

You can also bundle the benefits of OnDemand training with any live SANS course.

Learn more about all of the online training options available from SANS by visiting www.sans.org/online-security-training.

For more detailed information about our Online Training formats, turn to pages 2-7.

“I hold three GIAC certifications, have attended multiple classes, and nothing prepares me to do my job better than SANS Online Training.” —Rick Whitmore, University of Kansas

SANS Institute is the most trusted and largest provider of live training (from small groups to multi-course training events), online training (from self-paced to instructor-led), certification, education and free community resources to information security professionals around the world.

This training guide and the enclosed IT Security Training Roadmap will help you to plan your education and accelerate your career! The roadmap pullout contains all of the course, certification and career information you need to chart a course to success in Cyber Defense, Penetration Testing, Digital Forensics and Incident Response, or another information security field. Find the roadmap between pages 8 and 9.

Also in this catalog:

- Cyber Defense: 12 - 13
- Penetration Testing: 14 - 15
- Digital Forensics: 16 - 17
- Additional SANS Courses: 18
OnDemand

Train Anytime, Anywhere, At Your Own Pace

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Each course gives you four months of access to our OnDemand computer-based training platform, which includes a mix of presentation slides, video demonstrations, quizzes, and audio of SANS’ top instructors teaching the material. If you have questions about the material, our subject-matter experts are available to help.

You can also bundle OnDemand with any other SANS online or in-person training vehicles to diversify your learning experience or bolster your preparation for the GIAC certification exam.

For more information, contact us:
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“I love the OnDemand option. With family and work schedules, OnDemand was the only way I could finish the course. I also really enjoyed listening to the class.”
—Fred Leezer, Cardinal Health

Reasons to Choose SANS OnDemand

- Four Months of Access to Comprehensive Online Training and Quizzes
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- Taught by SANS’ Top Gun Instructors, Including Dr. Eric Cole, Rob Lee, and Ed Skoudis
- No Travel or Time Away From the Office
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- Complete Set of Course Books and Hands-On CDs
- Course Progress Reports
- Over 30 Courses Available – Anytime, Anywhere
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Special Offers on OnDemand

Courses are available now.
Visit www.sans.org/ondemand/specials for more information.

OnDemand Courses

IT Security and Penetration Testing:
SEC301: Intro to Information Security
SEC401: Security Essentials Bootcamp Style
SEC501: Advanced Security Essentials - Enterprise Defender
SEC503: Intrusion Detection In-Depth
SEC504: Hacker Tools, Techniques, Exploits & Incident Handling
SEC505: Securing Windows with the Critical Security Controls
SEC506: Securing Linux/Unix
SEC511: Continuous Monitoring and Security Operations
SEC542: Web App Penetration Testing and Ethical Hacking
SEC560: Network Penetration Testing and Ethical Hacking
SEC566: Implementing and Auditing the Critical Security Controls - In-Depth
SEC575: Mobile Device Security and Ethical Hacking
SEC579: Virtualization and Private Cloud Security
SEC617: Wireless Ethical Hacking, Penetration Testing, and Defenses
SEC642: Advanced Web App Penetration Testing and Ethical Hacking
SEC660: Advanced Penetration Testing, Exploit Writing, and Ethical Hacking

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FOR572: Advanced Network Forensics and Analysis
FOR585: Advanced Smartphone and Mobile Device Forensics
FOR610: Reverse-Engineering Malware: Malware Analysis Tools and Techniques

Security Management:
MGT414: SANS® +S™ Training Program for the CISSP® Certification Exam
MGT512: SANS Security Leadership Essentials for Managers with Knowledge Compression™
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IT Audit:
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Legal Security:
LEG523: Law of Data Security and Investigations

Industrial Control Systems:
ICS410: ICS/SCADA Security Essentials

Course offerings are subject to change; please visit www.sans.org/online-security-training for regularly updated information.
vLive

Live Online Training From Your Own Home or Office

vLive courses from SANS Institute are taken via online classrooms that typically meet twice per week for six weeks and are taught by SANS’ top instructors. They feature challenging labs and exercises that develop skills and reinforce concepts, and are supported by subject-matter experts.

Simply log in at the scheduled times and join your instructor and classmates in an interactive virtual classroom. Don’t worry if you can’t attend every live session; classes are recorded and you can review the class archives for six months.

For more information, contact us:
vlive@sans.org
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Special Offers on vLive Courses are available now.
Visit www.sans.org/vlive/specials for more information.

Reasons to Choose SANS vLive

- Live Evening Courses Taken from the Convenience of Your Home or Office
- Six Months of Online Course Access
- Taught by SANS’ Top Gun Instructors, Including Dr. Eric Cole, Rob Lee and Ed Skoudis
- Meet Twice per Week for Six Weeks
- Course Content Authored by Instructors
- Labs, Hands-On Exercises and Archived Lectures
- Highly-Qualified Subject-Matter Expert Support
- Complete Set of Books and CDs

vLive Course Schedule

2015 Course Schedule:

Jan. 6 – Feb. 12 SEC502: Perimeter Protection In-Depth
Jan. 26 – Mar. 4 FOR585: Advanced Smartphone Forensics
Jan. 27 – Mar. 5 SEC503: Intrusion Detection In-Depth
Feb. 2 – Mar. 11 SEC401: Security Essentials Bootcamp Style
Feb. 10 – Mar. 19 SEC542: Web App Penetration Testing and Ethical Hacking
Mar. 3 – Apr. 9 MGT414: SANS® +S™ Training Program for the CISSP® Certification Exam
Mar. 9 – Apr. 15 FOR508: Advanced Computer Forensic Analysis and Incident Response
Mar. 23 – Apr. 29 SEC575: Mobile Device Security and Ethical Hacking
Apr. 6 – May 13 SEC501: Advanced Security Essentials - Enterprise Defender
Apr. 14 – May 21 SEC504: Hacker Tools, Techniques, Exploits & Incident Handling
Apr. 21 – May 28 FOR572: Advanced Network Forensics and Analysis
May 12 – Jun. 11 MGT512: SANS Security Leadership Essentials For Managers with Knowledge Compression™
Jun. 1 – Jul. 8 FOR408: Windows Forensic Analysis
Jun. 9 – Jul. 16 MGT414: SANS® +S™ Training Program for the CISSP® Certification Exam
Jun. 15 – Jul. 22 SEC575: Mobile Device Security and Ethical Hacking
Jul. 6 – Aug. 12 SEC560: Network Penetration Testing and Ethical Hacking
Aug. 4 – Sep. 10 SEC402: Web App Penetration Testing and Ethical Hacking
Aug. 11 – Sep. 17 FOR585: Advanced Smartphone Forensics
Aug. 18 – Sep. 24 SEC560: Advanced Penetration Testing, Exploit Writing, and Ethical Hacking
Sep. 1 – Oct. 8 SEC401: Security Essentials Bootcamp Style
Sep. 8 – Oct. 14 MGT414: SANS® +S™ Training Program for the CISSP® Certification Exam
Sep. 14 – Oct. 21 SEC504: Hacker Tools, Techniques, Exploits and Incident Handling
Sep. 21 – Oct. 28 SEC505: Securing Windows with the Critical Security Controls
Sep. 22 – Oct. 29 FOR508: Advanced Digital Forensics and Incident Response
Oct. 6 – Nov. 12 SEC511: Continuous Monitoring and Security Operations
Oct. 13 – Nov. 19 FOR572: Advanced Network Forensics and Analysis
Nov. 2 – Dec. 9 SEC401: Security Essentials Bootcamp Style
Nov. 3 – Dec. 3 MGT512: SANS Security Leadership Essentials For Managers with Knowledge Compression™

“Overall, I am much happier with the web-based live training as a) no travel required, b) no travel budget required, and c) some ‘soak time’ between modules (as well as time to complete the exercises before the next session). It’s still a bit of a fire hose to drink from, but I would heartily recommend this format.”
- Bill Stackpole, Rochester Institute of Technology
Simulcast

Attend a SANS Training Event Without Leaving Home

Simulcast training from SANS Institute gives you the opportunity to attend a one-week live training event from your own home or office via distance learning technology. Complete a SANS course quickly from anywhere in the world while still benefiting from real-time interaction with a top SANS instructor and a classroom of peers.

Simulcast Course Schedule

**Live from SANS DFIRCON West 2015:**
- Feb. 23 – 28 FOR408: Windows Forensic Analysis
- Feb. 23 – 28 FOR508: Advanced Computer Forensic Analysis and Incident Response
- Feb. 23 – 28 FOR526: Memory Forensics In-Depth
- Feb. 23 – 28 FOR572: Advanced Network Forensics and Analysis
- Feb. 23 – 28 SEC504: Hacker Tools, Techniques, Exploits and Incident Handling

**Live from SANS 2015**
- Apr. 11 – 12 MGT433: Securing The Human: How to Build, Maintain and Measure a High-Impact Awareness Program
- Apr. 13 – 18 SEC401: Security Essentials Bootcamp Style
- Apr. 13 – 17 SEC301: Intro to Information Security
- Apr. 13 – 17 FOR408: Windows Forensic Analysis
- Apr. 13 – 18 SEC503: Intrusion Detection In-Depth
- Apr. 13 – 18 SEC511: Continuous Monitoring and Security Operations

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For more information, contact us: simulcast@sans.org
301-654-SANS (7267)
sans.org/simulcast

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- Live Daytime Courses Taken from the Convenience of Your Home or Office
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- Complete a Course in One Week
- Course Content Authored by Instructors
- Labs, Hands-On Exercises and Archived Lectures
- Highly-Qualified Subject-Matter Expert Support
- Complete Set of Books and CDs
- No Travel Required

Additional Simulcast courses will be available at these 2015 events:
- SANS Austin ........................ May 18-23
- SANSFIRE 2015 ........................ June 15-20
- DFIR Summit ............................ July 9-14
- Cyber Defense Summit ........ Aug. 13-18

SelfStudy

SelfStudy is self-paced training for the motivated and disciplined infosec student.

Most of SANS’ Cyber Defense, Penetration Testing, Digital Forensics and Incident Response, Industrial Control Systems, Developer, Audit and Legal courses are available for completion via SANS SelfStudy. For more information, visit www.sans.org/selfstudy.

Online Training Voucher Credit

You can earn a bonus 15% or more towards SANS courses when your organization uses OnDemand or vLive online training exclusively with a SANS Voucher purchase. Organizations with multi-student training expectations should use SANS Vouchers to get the most out of their training budget.

Online Training Voucher Credits can be applied to fees associated with vLive and OnDemand Courses, GIAC Exams, Practice Exams, Extensions, Retakes and Certification Renewal.

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<th>Minimum Investment</th>
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Please Note: Due to the pre-negotiated discounts offered by SANS Voucher Programs, they cannot be combined with any other promotions.

Build an OnSite Simulcast for Your Organization

SANS has the ability to build a custom OnSite Simulcast to meet your organization’s specific distributed workforce training needs. We will send an instructor, as well as courseware and toolkits for every student, and Simulcast the training as needed to deliver a SANS course in any curriculum to your local or global workforce or group.

For more information about this OnSite Simulcast training opportunity, visit www.sans.org/onsite

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SANS Institute is a respected world leader in providing knowledge and training to information security professionals. Since 1989, we’ve developed a full range of training and tools through which professionals can gain vital experience and education.

In addition, we also have programs and resources such as OnSite custom training options, free webcasts, blogs and papers, the Cyber Talent applicant assessment program, and the annual “Difference Maker” Awards. Learn more about SANS Institute anytime, at:

www.sans.org
SANS Technology Institute

Graduate Programs in Information Security

The accredited Master of Science degrees in Information Security from SANS Technology Institute are the mark of a cybersecurity professional with deep technical and organizational capabilities.

Both the Master of Science in Information Security Engineering and the Master of Science in Information Security Management will help you to demonstrate your advanced skills in leading the information security efforts for your organization.

Shorter course programs are also available to earn topic-specific certificates.

Visit www.sans.edu today to learn more about the benefits of earning degrees or certificates from the SANS Technology Institute.

NetWars Continuous

Embrace the Challenge

SANS’ NetWars Continuous Online Range uses the gamification of IT Security to advance your most vital InfoSec skills.

To build your skills and keep them from getting rusty, you need an environment where you can apply your knowledge to solving real-world, real-time infosec issues to stay sharp. That’s what NetWars Continuous is all about. Over the course of 4 months and 5 levels, you can master real-world tactics and techniques in a safe learning environment.

Fully executed online, NetWars Continuous includes automated hints and support from the SANS NetWars team to ensure that you have the most rewarding experience possible. The challenge also delivers twice as many CPE credits (12) as a live NetWars Tournament (6), and the cost of participation is less than a standard SANS course.

Begin your online NetWars journey now at www.sans.org/netwars/continuous.

GIAC tests and validates the ability of practitioners in information security, forensics, and software security. GIAC Certification holders possess comprehensive cyber security skills to protect critical IT infrastructure, and are sought after globally by government, military and industry to protect the cyber environment.

More than 27 specialized certifications in security, forensics, penetration testing, web application security, IT audit, management, IT security law, and industrial control systems are available now. Learn more about pursuing your GIAC Certification at www.giac.org.

“GIAC defines a higher level of mastery and skill that is required in order to earn the credential. GIAC really stands out among other security certifications.” Josh Ringer, Benfis Health System
The five-step Cyber Defense process outlined below will enable you to identify risk, determine highest priorities, focus on the areas that really matter, and measure progress against established baselines to improve overall security posture.

Step 1: Identify Critical Data
Align critical assets with threats and vulnerabilities to focus on risk:
1. What is the risk?
2. Is it the highest-priority risk?
3. What is the most cost effective way of reducing the risk?

Step 2: Align the Defense with the Offense
- Reconnaissance
- Scanning
- Exploitation
- Creating Backdoors
- Covering Tracks

Step 3: Know Thy Organization
If the offense knows more than the defense, you will lose:
1. Accurate up-to-date network diagram
2. Network visibility map
3. Configuration management and change control

Step 4: Defense In-Depth
There is no such thing as an unstoppable adversary:
1. Inbound Prevention
2. Outbound Detection
3. Log Correlation
4. Anomaly Detection

Step 5: Common Metrics
Requirements:
Utilize the Critical Controls:
1. Offense informing the defense
2. Automation and continuous monitoring of security
3. Metrics to drive measurement and compliance

Critical Security Controls - Version 5
1. Inventory of Authorized and Unauthorized Devices
2. Inventory of Authorized and Unauthorized Software
3. Secure Configurations for Hardware and Software on Mobile Devices, Laptops, Workstations, and Servers
4. Continuous Vulnerability Assessment and Remediation
5. Malware Defenses
6. Application Software Security
7. Wireless Access Control
8. Data Recovery Capability
9. Security Skills Assessment and Appropriate Training to Fill Gaps
10. Secure Configurations for Network Devices such as Firewalls, Routers, and Switches
11. Limitation and Control of Network Ports, Protocols, and Services
12. Controlled Use of Administrative Privileges
13. Boundary Defense
14. Maintenance, Monitoring, and Analysis of Audit Logs
15. Controlled Access Based on the Need to Know
16. Account Monitoring and Control
17. Data Protection
18. Incident Response and Management
19. Secure Network Engineering
20. Penetration Tests and Red Team Exercises

Five Key Steps to Cyber Defense

Cyber Defense Curriculum:

SECD01: Intro to Information Security — This introductory course is the fastest way to get up to speed in information security. The entry-level course includes a broad spectrum of security topics and real-life examples, and can be used to prepare for GISF Certification.

SECD04: Security Essentials Bootcamp Style — In this course, students learn the language and underlying theory of computer security. Since all jobs today require an understanding of security, this course will help you understand how security applies to your job. In addition, students will gain the essential and latest knowledge and skills required for effective management of security systems and processes.

SECD05: Advanced Security Essentials — Enterprise Defender — A key theme of this course is that prevention is ideal, but detection is a must. Security professionals must know how to constantly advance security efforts in order to prevent as many attacks as possible. This prevention needs to occur both externally and internally via portable, network and server environments.

SECD06: Perimeter Protection In-Depth — This course is a comprehensive analysis of a wide breadth of protection technologies. As one of the most diverse courses in the SANS catalog, this training gives students a valuable grasp on important information security processes, which they can use to implement many tools.

SECD03: Intrusion Detection In-Depth — The purpose of this course is to acquaint students with the core knowledge, tools and techniques necessary to defend networks. Spanning a wide variety of topics, from foundational materials such as TCP/IP to detecting an intrusion, this training will provide students with in-depth knowledge on intrusion detection.

SECEC05: Securing Windows with the Critical Security Controls — In SECSECS05, students learn to reduce client-side exploits and to deal with pass the hash attacks and token abuse by implementing Critical Security Controls and tools such as PowerShell in a Windows environment.

SECD06: Securing Linux/Unix — Experience in-depth coverage of Linux and Unix security issues and examine how to mitigate or eliminate general problems that apply to all Unix-like operating systems. Specific configuration guidance and practical, real-world examples, tips, and tricks are provided to help students remove vulnerabilities.

SECC11: Continuous Monitoring and Security Operations — The Defensible Security Architecture and Network Security Monitoring/Continuous Diagnostics and Mitigation/Continuous Security Monitoring taught in this course will best position your organization or Security Operations Center to analyze threats and detect anomalies that could indicate criminal behavior.

SECD66: Implementing and Auditing the Twenty Critical Security Controls — In-Depth — As threats evolve, an organization’s security should be as well. To enable your organization to stay on top of this ever-changing scenario, SANS designed this course to train students how to implement the Twenty Critical Security Controls — a prioritized, risk-based approach to security that was designed by a master group of private- and public-sector experts from around the world.
What Makes SANS Penetration Testing Courses Special?

SANS courses are uniquely designed and written to provide the understanding and skills necessary to help students become the best penetration testers in the world. Our courses cover a wide variety of different technological landscapes that penetration testers face, with an in-depth focus on network, web application, mobile device and wireless penetration testing. In our courses, you’ll learn how to provide high-level penetration tests, offering technical excellence and business value to your organization.

What Is High-Value Penetration Testing and Why Is It Important?

A high-value penetration test has several aspects:

- It models the activities of real-world attackers…
- To find vulnerabilities in target systems…
- And exploits them under controlled circumstances…
- Applying technical excellence to determine and document risk and potential business impact…
- In a professional, safe fashion according to a carefully designed scope and rules of engagement…
- With the goal of helping an organization prioritize its resources in improving its security stance!

Penetration Testing Resources
pen-testing.sans.org/resources

“Excellent classroom material and real-world examples are used to enhance understanding of concepts. And the online format allows you to replay content for greater understanding of concepts.” - Curt Lengfelder, PACCAR Inc.

SEC504: Hacker Tools, Techniques, Exploits & Incident Handling—Intense attack techniques and their associated defenses are covered in this course, so that offense can inform defense to improve the state of security in your organization by preparing you to handle incidents caused by the latest threats.

SEC542: Web App Penetration Testing and Ethical Hacking—Through detailed, hands-on exercises, this intermediate to advanced level course will provide you with the skills needed to perform web app vulnerability discovery and exploitation for your organization.

SEC560: Network Penetration Testing and Ethical Hacking—In-depth penetration testing skills learned in this course will prepare you to conduct professional-grade pen tests, end-to-end, including scoping, recon, scanning, exploitation, post-exploitation and more.

SEC575: Mobile Device Security and Ethical Hacking—Secure design, deployment, operation and pen testing of mobile devices and their associated infrastructures are the topics of this course. Top-notch lessons on device analysis, app exploitation, mobile device management and wireless infrastructures are included.

SEC617: Wireless Ethical Hacking, Penetration Testing, and Defenses—This course is dedicated to the art of analyzing wireless protocols, devices and infrastructures to find vulnerabilities and fix them, with topics ranging from wireless LANs to Bluetooth to ZigBee and more.

SEC642: Advanced Web App Penetration Testing and Ethical Hacking—In this course you will experience intense web app and web services exploitation, diving deep into the mechanics of web app infrastructures and protocols to find and fix subtle yet hugely damaging flaws before the hackers do.

SEC660: Advanced Penetration Testing, Exploit Writing, and Ethical Hacking—This course is designed to take your skills to a whole new level, with in-depth information and techniques about targeting network infrastructures, fuzzing to find vulnerabilities, exploiting crypto problems, writing and customizing exploits for Windows and Linux, and more.
Every organization will eventually deal with cyber crime. Fraud, intrusion, insider threat, phishing and other cyber crimes are now a fact of life. If you are an IT or law enforcement professional and don’t know how to look for and sort out these cases, your skills are becoming less valuable every day.

SANS developed the Digital Forensics and Incident Response courses to train sophisticated incident responders and forensics investigators. A properly trained incident responder could be the only defense your organization has during a compromise. As a forensics investigator, you need to know what you are up against, and you need to have the most up-to-date knowledge of how to detect and fight it – that is what SANS courses will teach you.

Why Is Computer Forensics Important?

Proper handling of a forensics investigation is key to fighting back against computer crimes. A thorough understanding of many areas is required for a proper investigation, including: situation; acquisition; analysis; reporting; presenting; and certification.

- **Situation**
  Incident response teams need to respond to intrusions in addition to e-discovery requests.

- **Acquisition**
  Forensic analysts need to gather digital evidence using approved legal and technical methodologies.

- **Analysis**
  Forensic analysts need to examine data, extracting key evidence while preserving data integrity.

- **Reporting**
  Forensic analysts need to communicate key information to management.

- **Presenting**
  Analysts need to be prepared to present evidence in civil or criminal courts.

- **Certification**
  Forensic certification increases an analyst’s stature in a court of law.

“I am a huge SANS fan, this is my second course and I plan on taking as many as I can fit into the company’s training budget for future years.” - Kurt Manke, Organic Valley
DEVS52: Defending Web Applications Security Essentials — This is the course to take to learn how to defend web applications. Traditional network defenses, such as firewalls, fail to secure web applications. The quantity and importance of data entrusted to web applications is growing, and defenders need to learn how to secure that data.

DEVS541: Secure Coding in Java/JEE: Developing Defensible Applications — Take this course to learn how to secure your Java applications and learn about Java EE and platform security. In this course you will examine actual code, work with real tools, build applications, and gain confidence in the resources you need for the journey to improve the security of your Java applications.

DEVS544: Secure Coding in .NET: Developing Defensible Applications — During this course we analyze the defensive strategies and technical underpinnings of the ASP.NET framework and learn where, as a developer, you can leverage defensive technologies in the framework, and where you need to build security in by hand. We’ll also examine strategies for building applications that will be secure both today and in the future.

AUD507: Auditing & Monitoring Networks, Perimeters & Systems — This course is organized to provide a risk-driven method for tackling the enormous task of designing an enterprise security-validation program. After covering a variety of high-level audit issues and general audit best practices, the students will have the opportunity to dive deep into the technical how-to for determining the key controls that can be used to provide a level of assurance to an organization.

MGT514: IT Security Strategic Planning, Policy and Leadership — This completely updated course is designed to empower advancing legal and IT security professionals with the knowledge, the tools, and the confidence needed to successfully lead on IT security and information security. The primary objective of this course is to teach participants how to design, implement, and enforce an IT security strategic plan.

MGT512: SANS Security Leadership Essentials For Managers with Knowledge Compression™ — This completely updated course is designed to empower advancing legal and IT security professionals with the knowledge, the tools, and the confidence needed to successfully lead on IT security and information security. The primary objective of this course is to teach participants how to design, implement, and enforce an IT security strategic plan.

MGTS14: SANS® +S™ Training Program for the CISSP® Certification Exam — This is an accelerated review course that assumes the student has a basic understanding of networks and computer security. The course gives you 80 hours of study materials and exam cram techniques to pass the CISSP® Certification Exam.

MGTS12: SANS Security Leadership Essentials For Managers with Knowledge Compression™ — This is a complete and updated guide that is required reading for anyone who wants to get up to speed quickly on information security issues and terminology. You won’t just learn about security; you will learn how to manage it.

MGTS14: IT Security Strategic Planning, Policy and Leadership — This course teaches you the entire strategic planning process: what it is and how to do it; what tactics lend themselves to virtual teams; and which need to be done face-to-face. Students practice building those skills in class.

LEGAL523: Law of Data Security and Investigations — This course will teach you the law of business, contracts, fraud, crime, IT security, IT liability and IT policy — all with a focus on electronically stored and transmitted records. The course also teaches investigators how to prepare credible, defensible reports, whether for cyber forensics, incident response, human resources or other investigations.

For regularly updated information, visit www.sans.org/online-security-training

Course Descriptions

Software Security Curriculum:

DEV52: Defending Web Applications Security Essentials
DEV541: Secure Coding in Java/JEE: Developing Defensible Applications
DEV544: Secure Coding in .NET: Developing Defensible Applications

Audit Curriculum:

AUD507: Auditing & Monitoring Networks, Perimeters & Systems

Management Curriculum:

MGT514: IT Security Strategic Planning, Policy and Leadership

Legal Curriculum:

LEGAL523: Law of Data Security and Investigations

Course Pricing

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Legal Security:
LEGAL523: Law of Data Security and Investigations

Industrial Control Systems:
ICS410: ICS/SCADA Security Essentials

Course prices are subject to change. Visit www.sans.org/online-security-training for regularly updated information.
Don’t miss an opportunity to take SANS Institute’s information security training ever again.

Use our online training formats - OnDemand, vLive, Simulcast or SelfStudy - to train from anywhere in the world, when you prefer and without any travel costs!

Online course specials also make training more feasible. Visit www.sans.org/online-security-training/specials now to see the current special.
The IT Security Training Roadmap inside is a representation of the studies needed to advance your career in seven paths of information security. Use this guide to plan your personal growth in the industry.

### Online Training Formats

<table>
<thead>
<tr>
<th>OnDemand</th>
<th><a href="http://www.sans.org/ondemand">www.sans.org/ondemand</a></th>
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<tr>
<td>vLive</td>
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**OnDemand** is a custom-made, comprehensive e-learning platform that allows you to complete SANS Institute training from anywhere in the world, at any time. More than 30 pre-recorded courses are available in four-month OnDemand packages—enough to complete a course in as little as four months. And it’s possible to add the features of OnDemand to a live course.

**vLive** is a live evening classroom course format that gives you the structure and interaction of a live course, along with the flexibility and operation of an online course. Meetings are held twice a week, and 36 hours of access to all course recordings and materials allow live students to have the best of both worlds.

**Simulcast** allows students who cannot travel to a live SANS event to experience the one-week course via remote access. Students log in to the online classroom and experience an interactive and dedicated learning program, without traveling. All of the course books and materials are also provided.

**SelfStudy** online training provides students with SANS course books, exercises, lectures, quizzes, and videos for self-paced learning experience.

### The 4 Coolest Jobs

#### The IT Security Training Roadmap

- **Security Leaders** from your own computer
- **Normal Routine** with minimal impact on your lifestyle
- **MP3 Archives of Instructor Lectures** for 4 to 6 months
- **Real-Time Access to Instructors**
- **Subject-Matter Expert Support**
- **Integrated Quizzes**
- **Minimal Impact on Your Schedule**
- **Live Daytime One-Week Courses**
- **Books, CDs and Exercises**

#### Available Course Options

<table>
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<tr>
<th>Digital Forensics</th>
<th>Incident Response</th>
<th>Network Engineering</th>
<th>Security Leadership</th>
<th>Security Systems Engineering</th>
<th>SOC Analyst</th>
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#### 4 Cool Online Training Formats

- **Digital Forensics**: Watch the quick video comparison of SANS' Online Training Formats at www.sans.org/online-security-training.
- **SOC Analyst**: Watch the quick video comparison of SANS' Online Training Formats.
- **OnDemand**: Use this guide to plan your personal growth in the industry.
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#### OnDemand Bundles

- **vLive**: It's also possible to add the features of OnDemand to a live course. If you prefer to attend one-week courses at one of SANS many live security venues, the OnDemand Bundle is for people who are interested in access to the dynamic e-learning platform to manage your progress and continuous support from Subject-Matter Experts.
- **Simulcast**: SelfStudy online training provides students with SANS course books, exercises, lectures, quizzes, and videos for self-paced learning experience.
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#### 30 Coolest Jobs In Information Security

- **SOC Analyst**: Watch the quick video comparison of SANS' Online Training Formats.
- **OnDemand**: Use this guide to plan your personal growth in the industry.
- **Live**: Watch the quick video comparison of SANS' Online Training Formats.
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#### Discover a Path to Success with SANS

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