

★ THE WORLD'S LARGEST & MOST TRUSTED PROVIDER OF CYBER SECURITY TRAINING ★

**SANS**  
EMEA

# LONDON SUMMER 2016

SAT 9 – SAT 16 JULY, 2016 #SANSLONDON

## 14 SANS COURSES

**SEC401**

Security Essentials  
Bootcamp Style

**SEC503**

Intrusion Detection  
In-Depth

**SEC506**

Securing  
Linux/Unix

**SEC566**

Implementing and  
Auditing the Critical  
Security Controls- In  
Depth

**SEC660**

Advanced Penetration  
Testing, Exploit Writing,  
and Ethical Hacking

**FOR572**

Advanced Network  
Forensics and Analysis

**SEC524**

Cloud Security  
Fundamentals

**SEC502**

Perimeter Protection  
In-Depth

**SEC504**

Hacker Tools,  
Techniques, Exploits  
and Incident Handling

**SEC550**

Active Defense,  
Offensive  
Countermeasures and  
Cyber Deception

**SEC617**

Wireless Ethical  
Hacking, Penetration  
Testing, and Defenses

**FOR508**

Advanced Digital  
Forensics and Incident  
Response

**FOR578**

Cyber Threat  
Intelligence

**SEC567**

Social Engineering for  
Penetration Testers

Register online and see full course descriptions at [www.sans.org/london-in-the-summer-2016](http://www.sans.org/london-in-the-summer-2016)

Save €250 with discount code "EarlyBird16" for any course by 1 June, 2016.



# ABOUT SANS

SANS is the world's largest provider of cyber security training. We now train over 40,000 cyber security professionals around the world each year. We operate across 30 geographic regions. In those regions SANS trains cyber security operatives and managers who work in government departments, for military bodies and for large commercial organisations.



**CONTACT SANS**  
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 @SANSEMEA

# COURSES AT A GLANCE

	SAT 9	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15	SAT 16
<b>SEC 401</b> Security Essentials Bootcamp Style <i>Dr. Eric Cole &amp; Stephen Sims</i>			●	●	●	●	●	●
<b>SEC 502</b> Perimeter Protection In-Depth <i>Paul A. Henry</i>			●	●	●	●	●	●
<b>SEC 503</b> Intrusion Detection In-Depth <i>David Hoelzer</i>			●	●	●	●	●	●
<b>SEC 504</b> Hacker Tools, Techniques, Exploits and Incident Handling <i>Dave Shackleford</i>			●	●	●	●	●	●
<b>SEC 506</b> Securing Linux/Unix <i>Hal Pomeranz</i>			●	●	●	●	●	●
<b>SEC 550</b> Active Defense, Offensive Countermeasures and Cyber Deception <i>Bryce Galbraith</i>			●	●	●	●	●	
<b>SEC 566</b> Implementing and Auditing the Critical Security Controls – In Depth <i>Chris Christianson</i>			●	●	●	●	●	
<b>SEC 617</b> Wireless Ethical Hacking, Penetration Testing, and Defences <i>Larry Pesce</i>			●	●	●	●	●	●
<b>SEC 660</b> Advanced Penetration Testing, Exploit Writing, and Ethical Hacking <i>James Lyne</i>			●	●	●	●	●	●
<b>FOR 508</b> Advanced Digital Forensics and Incident Response <i>Jess Garcia</i>			●	●	●	●	●	●
<b>FOR 572</b> Advanced Network Forensics and Analysis <i>Philip Hagen</i>			●	●	●	●	●	●
<b>FOR 578</b> Cyber Threat Intelligence <i>Robert M. Lee</i>			●	●	●	●	●	
<b>SEC 524</b> Cloud Security Fundamentals <i>Dave Shackleford</i>	●	●						
<b>SEC 567</b> Social Engineering for Penetration Testers <i>James Lyne</i>	●	●						

**REGISTER NOW** [www.sans.org/london-in-the-summer-2016](http://www.sans.org/london-in-the-summer-2016)

# WELCOME TO SANS LONDON SUMMER 2016

SANS LONDON SUMMER RUNS FROM THE 9TH JULY – 16TH JULY AT THE GRAND CONNAUGHT ROOMS AND HOSTS 14 COURSES DRAWN FROM ACROSS THE SANS CURRICULUM.



Registration fees include all courseware and training materials plus morning and afternoon break refreshments and lunch served in the hotel restaurant. Accommodation is not included.

Students are able to attend free evening functions. The demand for places at London events is always high so please register online as soon as possible to secure a seat at SANS London Summer 2016.

Read on for course descriptions or visit [www.sans.org/london-in-the-summer-2016](http://www.sans.org/london-in-the-summer-2016)

## LOCATION

Grand Connaught Rooms  
61-65 Great Queen Street  
London, WC2B 5DA



# COURSE SUMMARIES

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SEC  
401



[WWW.SANS.ORG/SEC401](http://WWW.SANS.ORG/SEC401)  
**SECURITY ESSENTIALS  
BOOTCAMP STYLE**

DR. ERIC COLE & STEPHEN SIMS

SEC401 teaches students the essential skills and techniques needed to protect and secure an organisation's critical information assets and business systems. Students learn the language and underlying theory of computer and information security and gain the knowledge needed to secure systems and organisations.

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SEC  
502



[WWW.SANS.ORG/SEC502](http://WWW.SANS.ORG/SEC502)  
**PERIMETER PROTECTION  
IN-DEPTH**

PAUL A. HENRY

This course provides a comprehensive analysis of a wide breadth of protection technologies. A proper security posture must be comprised of multiple layers. This course was developed to teach the knowledge and tools necessary at every layer to ensure a network is secure.

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SEC  
503



[WWW.SANS.ORG/SEC503](http://WWW.SANS.ORG/SEC503)  
**INTRUSION DETECTION  
IN-DEPTH**

DAVID HOELZER

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.

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SEC  
504



[WWW.SANS.ORG/SEC504](http://WWW.SANS.ORG/SEC504)  
**HACKER TOOLS, TECHNIQUES, EXPLOITS  
AND INCIDENT HANDLING**

DAVE SHACKLEFORD

SEC504 provides hands-on experience in finding vulnerabilities and discovering intrusions, whilst also equipping students with a comprehensive incident-handling plan. The course addresses the latest cutting-edge, insidious attack vectors as well as less recent attacks that are still prevalent.

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# COURSE SUMMARIES

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[WWW.SANS.ORG/SEC506](http://WWW.SANS.ORG/SEC506)

## SECURING LINUX/UNIX

HAL POMERANZ

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.

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[WWW.SANS.ORG/SEC550](http://WWW.SANS.ORG/SEC550)

## ACTIVE DEFENSE, OFFENSIVE COUNTERMEASURES AND CYBER DECEPTION

BRYCE GALBRAITH

This course is based on the Active Defense Harbinger Distribution live Linux environment funded by the Defense Advanced Research Projects Agency. This virtual machine is built from the ground up for defenders to quickly implement Active Defences in their environments.

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[WWW.SANS.ORG/SEC566](http://WWW.SANS.ORG/SEC566)

## IMPLEMENTING AND AUDITING THE CRITICAL SECURITY CONTROLS - IN DEPTH

CHRIS CHRISTIANSON

SANS designed this course to train students how to implement the Twenty Critical Security Controls – a prioritised, risk-based approach to security that was designed by a master group of private and public sector experts from around the world.

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[WWW.SANS.ORG/SEC617](http://WWW.SANS.ORG/SEC617)

## WIRELESS ETHICAL HACKING, PENETRATION TESTING, AND DEFENSES

LARRY PESCE

This course is dedicated to the art of analysing wireless protocols, devices and infrastructures to find vulnerabilities and fix them, with topics ranging from wireless LANs to Bluetooth to ZigBee and more.

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# COURSE SUMMARIES

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SEC  
660



[WWW.SANS.ORG/SEC660](http://WWW.SANS.ORG/SEC660)

## ADVANCED PENETRATION TESTING, EXPLOIT WRITING, AND ETHICAL HACKING

JAMES LYNE

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 customising exploits for Windows and Linux, and more.

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FOR  
508



[WWW.SANS.ORG/FOR508](http://WWW.SANS.ORG/FOR508)

## ADVANCED DIGITAL FORENSICS AND INCIDENT RESPONSE

JESS GARCIA

This in-depth incident response course provides responders with advanced skills to hunt down, counter, and recover from a wide range of threats within enterprise networks, including APT adversaries, organised crime syndicates, and hactivism. Constantly updated, the course provides hands-on incident response tactics and techniques that elite responders are successfully using in real-world breach cases today.

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FOR  
572



[WWW.SANS.ORG/FOR572](http://WWW.SANS.ORG/FOR572)

## ADVANCED NETWORK FORENSICS AND ANALYSIS

PHILIP HAGEN

FOR572 was built from the ground up to cover the most critical skills needed to mount efficient and effective post-incident response investigations. It covers the tools, technology and processes required to integrate network evidence sources into investigations, with a focus on efficiency and effectiveness.

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FOR  
578



[WWW.SANS.ORG/FOR578](http://WWW.SANS.ORG/FOR578)

## CYBER THREAT INTELLIGENCE

ROBERT M. LEE

When considering the value of threat intelligence, most individuals and organisations ask themselves three questions: What is threat intelligence? When am I ready for it? How do I use it? This class answers these questions and more at a critical point in the development of the field of threat intelligence in the wider community.

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# COURSE SUMMARIES

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[WWW.SANS.ORG/SEC524](http://WWW.SANS.ORG/SEC524)  
**CLOUD SECURITY  
FUNDAMENTALS**

DAVE SHACKLEFORD

This course is based on the Active Defense Harbinger Distribution live Linux environment funded by the Defense Advanced Research Projects Agency. This virtual machine is built from the ground up for defenders to quickly implement Active Defences in their environments.



[WWW.SANS.ORG/SEC567](http://WWW.SANS.ORG/SEC567)  
**SOCIAL ENGINEERING  
FOR PENETRATION TESTERS**

JAMES LYNE

SEC567 provides the blend of knowledge required to add social engineering skills to your penetration testing portfolio. Successful social engineering utilises psychological principles and technical techniques to measure your success and manage the risk.



## MGT433 AT LONDON SUMMER

**MGT433: SECURING THE HUMAN:  
HOW TO BUILD, MAINTAIN AND  
MEASURE A HIGH-IMPACT AWARENESS  
PROGRAMME TAKES PLACE ON 7–8  
JULY 2016, AT THE GRAND CONNAUGHT  
ROOMS IN CENTRAL LONDON.**

MGT433 is led by Lance Spitzner - SANS Securing The Human's Research and Community Director.

MGT433 teaches students about The Security Awareness Maturity Model and how to use it as the roadmap for an awareness programme.

### THE COURSE ALSO TEACHES HOW TO:

- Effectively engage and communicate within an organisation.
- Identify and mitigate the top human risks to an organisation.
- Sustain a security awareness programme, including updating content and communication methods.
- Change an organisation's culture.
- Measure the impact of an awareness programme, track reduction in human risk, and communicate the campaign's value to management.



