

# Cyber Security Tools for Today's Environment

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### NEW! Cyber Security Program

Designed to help businesses improve their security techniques, Cyber Security Tools for Today's Environment is ideal for technical professionals across all industries who support their company's IT departments and require up-to-date information on how to protect enterprise networks from potential threats.

These courses are intended for mid/advanced career professionals in IT, computer science, and related fields that are looking to enhance their knowledge and stay current in the field of cyber security.

- Cloud Security
- Data Security in the Cloud
- System Fundamentals for Cyber Security
- Social Engineering for Cyber Security
- Introduction to Penetration Testing
- Cryptography Fundamentals
- Network Sniffing
- Footprinting
- Webserver & Web Application Security
- WiFi and Bluetooth Security
- Mobile Device Security



**Instructor  
Sean Oriyano**

Instructor Sean Oriyano is a seasoned IT security professional and entrepreneur. Over the past 25 years, he has split his time between writing, researching, consulting and training various people and organizations on a wide range of topics relating to both IT and security. He is also a member of the U.S. military as a Chief Warrant Officer specializing in infrastructure and security. Sean holds a number of certifications through FEMA, SGAUS, and COMPTIA.

### Cyber Security Program Quick Facts

Develop the skills and knowledge needed to succeed:

Eleven courses specifically chosen to cover all aspects of Cyber Security and help users gain the knowledge they need in the industry

Delivered via IEEE Xplore, with its mobile-friendly design and powerful search features

Printable individual CEU or PDH certificates upon the successful completion of a course

Professionally developed multimedia courses

Introductory, Intermediate, or Advanced course levels

Perpetual access options are available

Other course programs available:

- Hacking Your Company: Ethical Solutions to Defeat Cyber Attacks

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## Courses included in the Cyber Security Program:

### Cloud Security

This course presents a picture of threat vectors in cloud services, and the unique architectural considerations for securing assets through cloud providers.

### Data Security in the Cloud

This course addresses the threats to data security as they relate to the Cloud, and offers a review of the technologies that work together to create a robust Data Loss Prevention (DLP) architecture.

### System Fundamentals for Cyber Security

This course provides a fundamental overview; particularly helpful for an introductory look at Cyber Security. Topics covered will include: a review of common operating systems and their various features and drawbacks.

### Social Engineering for Cyber Security

In this course, we explore how a penetration tester can manipulate a conversation or communications in order to extract useful information.

### Introduction to Penetration Testing

Penetration testing is the process of testing a computer system, web application or network to find vulnerabilities that could be exploited by an attacker.

### Cryptography Fundamentals

This course will explore areas of cryptography. Topics covered will include symmetric and asymmetric encryption, as well as hashing and steganography.

### Network Sniffing

A sniffer is a program/device that monitors data traveling over a network. This course examines the process of sniffing, including active and passive sniffing.

### Footprinting

This course covers the fundamentals and methods of footprinting, the process of gathering data regarding a network environment usually for the purpose of finding ways to intrude into the environment.

### Webserver & Web Application Security

This course examines the history of web servers and web applications and evaluates different web applications for flaws.

### WiFi and Bluetooth Security

In this course, the security of Wi-Fi and Bluetooth technologies are examined. This course will provide insight into how to protect a wireless network from being hacked.

### Mobile Device Security

In this course, different types of mobile operating systems are discussed and examined how data on mobile devices can be lost, stolen, and protected.

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## IEEE Continuing Education Units (CEUs) and Prof. Development Hours (PDHs)

All courses are peer-reviewed by content experts, a process that guarantees both the quality of the technical content as well as adherence to strict IEEE criteria for educational excellence. As a CEU provider, IEEE can offer CEUs for any IEEE learning activity running at least one hour in duration. IEEE CEUs can also be converted into the PDHs needed to meet recertification requirements for professional certifications or licenses.

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