

Cyber Security Tools for Today's Environment

An IEEE eLearning Library Course program

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Cyber Security Course 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 to 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. Topics covered include:

- 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 and 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 Course Program Quick Facts

Develop the skills and knowledge needed

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

Available on-demand through IEEE Xplore, the IEEE Learning Network or order files to load on a company LMS

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Professionally developed multimedia courses

Introductory, Intermediate, or Advanced course levels

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- Hacking Your Company: Ethical Solutions to Defeat Cyber Attacks
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IEEE eLearning Library: Delivered through the IEEE *Xplore*® Digital Library

Cyber Security Program Course Listing:

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 include: a review of common operating systems and their various features and drawbacks.

Social Engineering for Cyber Security

This course explores 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 explores areas of cryptography. Topics covered 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 and 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

This course examines the security of Wi-Fi and Bluetooth technologies, while providing 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 as to how data on mobile devices can be lost, stolen, and protected.

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