

# e-learning cybersecurity ethical hacking

*Practical course - 1d - 04h20 - Ref. 8EH*

*Price : 190 CHF E.T.*

How can you defend your systems without understanding the attackers' tactics? Dive into the fascinating world of Ethical Hacking with our specialized channel, designed to introduce you to intrusion techniques and vulnerability analysis. Learn how to think like a hacker to better protect your sensitive data.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Learn about the different types of hackers, their motivations and methodology.
- ✓ Use certain tools (Kali Linux, Nmap, Metasploit) that make it easier to infiltrate systems.
- ✓ Know the recommendations and countermeasures associated with each type of attack.
- ✓ Identify attacks and services.
- ✓ Understanding defense mechanisms.
- ✓ Know safety procedures.
- ✓ Understand the basic principles of application vulnerabilities.
- ✓ Discover the tools for exploiting application vulnerabilities on Linux and Windows.
- ✓ Study the exploitation of remote application vulnerabilities.

## Intended audience

Developers, CISOs or CIOs.

## Prerequisites

Good knowledge of programming, network operation and computer architecture.

### PARTICIPANTS

Developers, CISOs or CIOs.

### PREREQUISITES

Good knowledge of programming, network operation and computer architecture.

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## Practical details

### Digital activities

IT structure: recorded courses, expert videos and best practice sharing.

### Mentoring

L'option tutorat propose un accompagnement personnalisé par un formateur référent ORSYS, expert du domaine. Adapté aux besoins, aux capacités et au rythme de chaque apprenant, ce tutorat combine un suivi asynchrone (corrections personnalisées d'exercices, échanges illimités par message...) et des échanges synchrones individuels. Bénéfice : une meilleure compréhension, le développement des compétences et un engagement durable dans la formation.

### Pedagogy and practice

A wealth of content produced by trainers following a rigorous pedagogical approach. During each course, operational cases are commented on by experts to help learners put into practice what they have just learned. To help learners anchor their memory, each content item is broken down into short sequences of 3 to 10 minutes. This enables each learner to learn dynamically and independently.

#### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

#### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

## Course schedule

### 1 Ethical Hacking, learning the fundamentals of computer security

- Understanding ethical hacking.
- Understand the fundamentals of ethical hacking.
- Recognition phase.
- Understand network scanning.
- Discover system access.

### 2 Ethical Hacking, understanding the notion of fingerprinting

- The stages of a computer attack.
- Tools for finding information.
- Computer fingerprinting.

### 3 Ethical Hacking, learning about the attack techniques used in application

#### vulnerabilities

- Understand the basic principles of application vulnerabilities.
- Discover the microprocessor and memory.
- Learn the basics of assembly language.
- Understanding buffer overflow.
- Use SEH protection.