

# Cybersecurity e-learning channel

Practical course - 1d - 07h23 - Ref. 8CY

Price : 190 € E.T.

Combat cyber threats with our specialized cybersecurity channel. Find out about data protection methods, attack prevention techniques and strategies for countering vulnerabilities in your digital infrastructures. Are you ready to become a cybersecurity expert?

## Teaching objectives

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

- ✓ Know how to protect information.
- ✓ Promote the company's IS security policy.
- ✓ Identify the risks of using digital tools.
- ✓ Securing your workstation.
- ✓ Implement encryption with BitLocker.
- ✓ Set up group strategies.
- ✓ Manage BitLocker recovery key retrieval in Active Directory and Azure Active Directory.
- ✓ Install and use the Kali Linux distribution.
- ✓ Analyze vulnerabilities with Nessus.
- ✓ Test your network with Macchanger or Macof.
- ✓ Understand the concept of Man in The Middle, as well as brute force attack tools.
- ✓ Manage WiFi network security.
- ✓ Deploy a PKI solution in your company.
- ✓ Understanding PKI.
- ✓ Know the concepts of cryptography.
- ✓ Understand symmetrical and asymmetrical encryption.
- ✓ Use certificates and certificate templates.

## Intended audience

System and network administrators and anyone in charge of IT security.

## Prerequisites

Knowledge of Linux and Windows systems.

### PARTICIPANTS

System and network administrators and anyone in charge of IT security.

### PREREQUISITES

Knowledge of Linux and Windows systems.

### 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.

## Course schedule

### 1 BitLocker, implementing and managing desktop encryption in the enterprise

- Discover the BitLocker feature.
- Setting up encryption with BitLocker.

### 2 Kali Linux, start analyzing the security of your infrastructure

- Discover Kali Linux.
- Installing Kali Linux.
- Kali Linux configuration.
- Discovering vulnerabilities.
- Installing and using Nessus.
- Getting to grips with Kali Linux and the network.
- Use of network tools.
- Discovering brute force attacks with Kali Linux.
- Use of brute force attack tools.
- WiFi security management.

### 3 PKI, implementing and using a public key infrastructure in a Windows environment

- Introduction to PKI: cryptography.
- Certificates in a public key infrastructure.
- PKI implementation.
- Certificate models in a public key infrastructure.

### 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](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.