Course

Cybersecurity in vehicle fleets

Course subsidized by Fundae

FORMACIÓN
GRUPO CYBENTIA

En colaboración con el Área Técnica de

EUROCYBCAR®
CYBERSECURITY TEST

Cybersecurity in vehicle fleets

To know the current situation in the sector, with the new challenges that they must face

We have developed the course "Cybersecurity in Vehicle Fleets". A completely virtual training that, led by EUROCYBCAR experts, covers topics ranging from the current vehicle fleets, the systems and technologies used in their management, to the importance of the CSMS -cybersecurity management system- and the reasons why it is necessary and fundamental to guarantee its cybersecurity.

CYBENTIA Group, in collaboration with the technology company EUROCYBCAR, launches the first course focused on cybersecurity for business that use vehicle fleets, Fleet Management Systems and the different representatives involved.

This course will provide you with a global vision of the sector and **answer essential questions**: how connected vehicle fleets work, how the vehicles that comprise them can be controlled telematically and, above all, what cybersecurity risks they are exposed to.

Do you want to lead the cybersecure mobility sector?

Who is target audience?

Public and private enterprise, that have vehicles to make their work or so that their employees and members can carry out their professional journeys.



Brands, car manufacturers, renting/leasing companies, car sharing companies, logistics companies, insurance companies and experts.



Workshops, component and accessory manufacturers, fleet vehicle preparers, company purchase decision makers, FMS managers.



THE KEYS POINTS

OPEN
ENROLLMENT
Monthly courses

12
Hours

100%
online.

Subsidized
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In cooperation with the technical department

OBJECTIVES

Vehicle fleets Cybervulnerabilities

Learn about the technology which is implemented by connected vehicles integrated into a vehicle fleets and to what cyber-risks they expose the company and those traveling on board - privacy or related to their own lives-, as well as to the company of which they are part.

Impact of integrating cybersecurity on fleets and their FMS

How should the integration be carried out, from what moment should it be carried out, what changes and improvements must be implemented in the organization, in the FMS and in the vehicles that a company has to carry out its work and functions.

Know the level of cybersecurity of a vehicle fleet and its FMS

What cybersecurity legislation applied to vehicles or the FMS currently exists, and how it is applied; what is the objective of the EUROCYBCAR Test and everything it contributes to a company's connected vehicles.

Methodology

The course combines different educational resources for online training, mainly :

Individual study training videos and reinforcement training texts.

Self-evaluated progress test to pass the course at the end of the modules.

Chat room and forums to reinforce key content and answer questions.

Evaluation

The course concludes with a final test to be taken after studying the training modules of the course, made up of 10 test questions, with 3 possible answers of which only one of them is valid.
This test focuses on the main concepts that are part of the course, and there will be two attempts to pass it.

The result of the test will mean the student's evaluation in the course.

In addition, the course will be complemented with the following material:

- Questions and answers document.
- Related reports.
- Documentation.
- Additional material.

The structure and contents of the training will be supervised by personnel with training in teaching quality qualified by the competent school where the course is held.

ACADEMIC PROGRAM

1 THE CONNECTED ENGINE THAT MOVES THE WORLD

2 ORGANIZATIONAL AND OPERATIONAL ASPECTS OF AN FMS

3 TECHNOLOGICAL RESOURCES USED IN THE VEHICLE FLEETS

4 CYBERCRIMINALS OBJECTIVES

5 THE SOLUTION: THE EUROCYBCAR FLEET TEST

1 THE CONNECTED ENGINE THAT MOVES THE WORLD

1. **The Connected Vehicle**: How - and why - today's vehicles act as connected devices on the move.
2. **Vehicle fleets and the basic role they play in the world**: Fleets as a concept and their relevance today.
3. **Fleet Management System**: What is an FMS, what are its advantages and examples.
4. **Types of vehicle fleets**: The most common that exist divided into two classifications. Definition of the particularities of each one.
5. **The role of those responsible for the FMS**: competencies and responsibilities of the employees who work directly with the FMS, as well as the data they handle in their daily work.
6. **The cybersecurity advice** of the EUROCYBCAR Technical Area.
7. **Conclusions.**

2 ORGANIZATIONAL AND OPERATIONAL ASPECTS OF AN FMS

1. **Explanation of the different formulas** that exist to acquire the vehicles that are going to make up a fleet and which one is more beneficial for a company, analyzing the respective advantages and disadvantages that they present.
2. **Costs of the Fleet Management System**: Objectives that must be considered when making the costs, explanation of the types that exist.
3. **Operations of the vehicles of a fleet**: Objectives that must be considered when carrying out the necessary operations and main activities that are carried out, explained in detail.
4. **The cybersecurity advice** of the EUROCYBCAR Technical Area.
5. **Conclusions.**

3 TECHNOLOGICAL RESOURCES USED IN THE VEHICLE FLEETS

1. **Information Systems in an FMS**: Objectives for the design and implementation of a fleet management system, as well as technical aspects that must be considered.
2. **Vehicle management and monitoring**: Enumeration of the most outstanding parameters when it comes to efficiently controlling and monitoring vehicles.
3. **Technologies used in an FMS**: Development of the fundamental requirements that the technology implemented in fleet management must meet. Comprehensive treatment of the main technology of an FMS: Telematics.
4. **Future trends**: Four trends that affect and will affect FMS. Small preview of cybersecurity, an aspect that is developed more in depth in the following modules.
5. **The cybersecurity advice of the EUROCYBCAR Technical Area**.
6. **Conclusions.**

4 CYBERCRIMINALS OBJECTIVES

1. **Vulnerabilities in vehicles**: In what ways can a cracker attack the vehicles that make up the fleet of a certain organization.
2. **Vulnerabilities in the Fleet Management System**: What a cracker can do to the software, hardware and applications responsible for managing the vehicle fleet.
3. **Vulnerabilities caused by the human factor**: What consequences exist if the appropriate protocols and good practices are not followed?
4. **Practical Examples**: Real Cases.
5. **Conclusions.**

5 THE SOLUTION: THE EUROCYBCAR FLEET TEST

1. **Cybersecurity**: **Applicable Legislation**: The legislative framework that governs fleet and vehicle management systems, and how they contemplate cybersecurity.
2. **The Cybersecure Vehicle**: the EUROCYBCAR Test for Vehicles: How the EUROCYBCAR Test and its ESTP methodology, can help us choose cybersecure vehicles for our fleet.
3. **The FMS Cibersecure**: the EUROCYBCAR Test for Fleet Management Systems: How this Test measures and evaluates the level of cybersecurity of the different elements that make up the system that manages the vehicle fleet.
4. **Conclusions.**

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Information and inscriptions CYBENTIA Group

678 400 580

678 400 591

formacion@cybentia.com