



CSNOT COURSE OUTLINE

Certified Stormshield Network Operational Technology (NT-CSNOT)

Introduction

This one-day course is an introduction to the advanced features on Stormshield Network Security UTM products and explains how to operate these features in industrial networks and environments.

Target audience

Automation engineers, IT managers, network administrators and IT technicians who obtained CSNA certification less than three years earlier.

Learning methods



This course can be conducted in two ways: in-person with other trainees in a classroom, or online, in which the instructor uses a combination of videoconferencing tools and the Airbus CyberRange platform. The structure of the course includes both theory and practical exercises.



Courseware is provided to trainees and consists of course content and practical exercises (labs). Trainees are given access to a full-scale technical environment so that they can put into practice what they learn during the course.



In order for trainees to keep their knowledge up to date, all updated versions of courseware will be available in PDF on our platform <https://institute.stormshield.eu> for three years.

Aims of this course

At the end of the course, and after revising the fundamentals, trainees are expected to:

- Integrate SNS firewalls into various network architectures
- Expand on the way the IPS operates
- Know how to configure safety (bypass) mode
- Better understand the particularities of industrial protocols such as Modbus TCP and OPC UA
- Know how to set up specific security rules for industrial protocols
- Know how to customize application signatures depending on which PLCs are used

Venue and duration

Stormshield conducts training sessions, either onsite at its offices in Paris, Lille and Lyon, or online. Our instructors are also equipped to conduct in-company training (onsite or online) for groups of at least five trainees.



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The course lasts 7 hours.

Each session is open to a maximum of eight trainees.

Registration

All registration requests must be sent to a Stormshield Training Center (STC) distributor or to Stormshield's training department (training@stormshield.eu). Registrations are confirmed only upon receipt of the order form.

Our general sales terms and conditions are available at <https://www.stormshield.com/standard-terms-conditions-sale-service/>

Facilities for trainees with disabilities

Our course facilities are equipped to accommodate individuals with disabilities. However, a prior assessment of the nature of the disability is necessary. To ensure that we anticipate trainees' needs and make the necessary arrangements, we ask that they inform our training department of their requirements as soon as they get in touch.

Cost

The public price of the course is €1130 before tax for seven hours of course time and two CSNOT certification attempts online.

Requirements

This course is reserved for candidates who have passed the CSNA exam within the past three years, and who have sound knowledge of industrial networks.

- Web browser: Chrome 50 (or higher) or Firefox 50 (or higher) with Javascript installed to enable access to the CyberRange platform for practical exercises (only these browsers are supported). Trainees must also hold permissions to install plugins that support video calls
- PC with 6 GB of RAM and an i3 processor without hard disk limits

Additional requirements for the online version of the course:

- Latest version of a web browser: Chrome or Firefox with Javascript installed (only these browsers are supported)
- Verification of access to the CyberRange platform (<https://customers.cyberrange.cloud/>) prior to the course
- Permissions to install the videoconferencing application
- Internet access of at least 2 Mbps
- Working webcam and microphone
- A second monitor of at least 22 inches is recommended



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Detailed description of the course

- Individual introduction of trainees
- Introduction to the IPS
- Presentation of safety (bypass) mode
- Overview of industrial protocols
- Presentation of Modbus TCP
- Presentation of the OPC UA protocol
- How to capture and analyze a network traffic
- Creating custom signatures for a PLC and protecting the context in which it is used
- How to simulate and analyze an attack

Certification exam



Certification consists of an exam carried out online (40 minutes, 20 questions).

The minimum score required to obtain the certification is 70%.

Access to the exam automatically opens the day after the end of the course on the <https://institute.stormshield.eu> platform and remains open for three weeks. If trainees fail their first attempt or are unable to sit for the exam within this time frame, they will be entitled to a second and final attempt, which will open with immediate effect for an additional week.