



# CSNE E-LEARNING COURSE

## Certified Stormshield Network Expert (EL-CSNE-EN)

### Introduction

The CSNE e-learning course allows you to level up your network protection skills. During the course, you will learn how to use the advanced features on Stormshield Network firewalls in a complex architecture. With the CSNE e-learning course, you can explore the advanced features on Stormshield Network firewalls, accurately configure the intrusion prevention system and set up a certificate-based IPsec VPN.

Your organization's network security will no longer hold any mysteries. The Stormshield CSNE certification attests to your expertise in these skills.

### Target audience

IT managers, network administrators and CSNA-certified IT technicians.

### Learning resources and duration

The CSNE e-learning course is conducted over two learning platforms:

- <https://cybertraining.seela.io/> which provides access for three months to:
  - o The CSNE course in e-learning format, which includes a large selection of training videos
  - o The Airbus CyberRange platform to complete lab exercises on a turnkey virtual architecture accessible from the web browser
- <https://institute.stormshield.eu/> which provides access to
  - o Courseware in PDF and any updates to courseware for three years
  - o The CSNE exam for six months (2 attempts)



### Goals of the e-learning course

At the end of the e-learning course, and after revising the fundamentals, candidates are expected to know how to:

- Use the advanced functions of the GUI,
- Configure the intrusion prevention system with precision,
- Set up a PKI and transparent authentication,
- Set up a certificate-based IPsec VPN,
- Configure high availability (HA) clusters.

### Registration

All registration requests must be sent to a Stormshield training center (STC) distributor or to Stormshield's training department ([training@stormshield.eu](mailto:training@stormshield.eu)). During registration, the desired start date of the course must be indicated. This date must allow for a minimum processing time of 48 working hours. Registrations are confirmed only upon receipt of the order form.



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Trainees' personal particulars (title, first name, last name and e-mail address) will be sent to Seela, which will create their accounts on their e-learning platform. [Seela's confidentiality policy](#) will apply to such data.

The CSNE e-learning course is not considered a training session and is therefore not eligible for funding by an OPCO (in France only).

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

### Cost

The public price is €1000 before tax.

Trainees are given two attempts at the CSNE certification to validate what they learned.

### Requirements and hardware specifications

The CSNE e-learning course is reserved for candidates who have passed the CSNA exam within the past three years.

Hardware requirements:

- Latest version of a web browser: Chrome or Firefox with Javascript installed to enable access to the CyberRange platform (<https://cybertraining.seela.io/>) for practical exercises (only these browsers are supported).
- Internet access of at least 2 Mbps

### Recommended organization

As with any e-learning course, candidates must be organized and meticulous from the start of the program. Candidates must set aside and devote more than 2 hours weekly in their schedule to the e-learning course during the period in which they have access to the <https://cybertraining.seela.io/> platform.

### Detailed program of the CSNE e-learning course

- Detailed presentation of the Stormshield Network intrusion prevention system
  - o Differences between intrusion prevention and detection
  - o Intrusion prevention system
  - o The various types of analyses
  - o Application and protocol profiles
- Public key infrastructures
  - o Fundamentals of symmetric and asymmetric cryptography
  - o Types of encryption
  - o Stormshield Network PKI
  - o Creating certification authorities, server identities and user identities
- SSL proxy
  - o How it works



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- Configuration of the SSL proxy
- Advanced IPsec VPN
  - Details on the NAT traversal mechanism and how it works
  - Dead Peer Detection (DPD) support
  - Star and mesh VPN architecture
  - NAT inside IPsec
  - IPsec VPN architecture with a backup tunnel
  - Configuration of a site-to-site VPN using certificates
  - Configuring mobile VPNs
- GRE and GRE-TAP
  - How it works
  - Configuration and implementation
- Transparent authentication
  - How it works
  - SPNEGO authentication method
  - SSL certificate authentication method
- High availability
  - How it works
  - HA cluster creation and configuration wizard
  - Configuring network interfaces
  - Advanced properties

### Certification exam



To obtain certification, trainees must complete a 2-hour online exam containing 90 questions.

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

Access to the exam automatically opens the first day of the session on the <https://institute.stormshield.eu> platform and remains open for six months. 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.