



CSNA E-LEARNING COURSE OUTLINE

Certified Stormshield Network Administrator (EL-CSNA-FR)

Introduction

In the CSNA e-learning course, trainees will learn the main aspects of operating and configuring Stormshield Network Security firewalls. At the end of this course, trainees will be able to define and implement filter policies and routing policies, configure authentication policies, and set up various types of VPNs.

The Stormshield CSNA certification attests to the acquisition of these skills.

Target audience

IT managers, network administrators and IT technicians.

Learning resources and duration

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

- <https://cybertraining.seela.io/> which provides access for one month to:
 - o the CSNA 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 CSNA exam for six months (2 attempts)



Goals of the e-learning course

Trainees are expected to know how to:

- operate an SNS firewall and understand how it works
- configure a firewall within a network
- define and implement filter and routing policies
- configure access control to websites in http and https via a proxy
- configure authentication policies
- set up various types of virtual private networks (IPsec VPN and SSL VPN)

Registration

All registration requests must be sent to a Stormshield training center (STC) distributor or to Stormshield's training department (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.

The trainee's personal data (title, surname, first name, email) will be sent to Seela for the creation of his/her account on their e-learning platform. [Seela's privacy policy](#) will apply to this data.



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

Cost

The public price is €600 before tax.

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

Requirements and hardware specifications

Sound knowledge of TCP/IP, prior knowledge of networking is a bonus. Prior to signing up, prospective trainees for the CSNA e-learning course are requested to verify whether they possess the required knowledge by using the self-assessment test at [CSNA self-assessment](#).

Trainees who do not obtain the minimum required score must revise the basics of networking on their own with websites such as [Networks from scratch](#).

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 5 hours weekly in their schedule to the e-learning course during the month in which they have access to the <https://cybertraining.seela.io/> platform.

Detailed program of the CSNA e-learning course

- Stormshield training and certification program
- Stormshield: introduction to the company and products
- Getting started with the firewall
 - o Registering the firewall in the client area and accessing technical resources
 - o Resetting the firewall and introduction to the administration interface
 - o System configuration and administration privileges
 - o Installing licenses and updating the system version
 - o Backing up and restoring configurations
- Logs and monitoring
 - o Log categories
 - o Monitoring and history graphs
- Objects
 - o Concept of objects and types of objects
 - o Network and router objects
- Network configuration
 - o Configuration modes on networked appliances



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- Types of interfaces: Ethernet, modem, bridge, VLAN and GRE/TAP
- Routing types and priorities
- Address translation (NAT)
 - Translation of outgoing traffic (masquerading)
 - Translation of incoming traffic (redirection)
 - Translation in both directions (one-to-one translation)
- Filtering
 - Overview of filtering and stateful tracking
 - Detailed presentation of settings in a filter rule
 - Sequencing of filter and translation rules
- Application protection
 - Setting up URL filtering in http and https
 - Configuration of the antivirus analysis and Breach Fighter sandboxing feature
 - Intrusion prevention module and security inspection profiles
- Users & authentication
 - Directory configuration
 - Introduction to the various authentication methods: LDAP, Kerberos, Radius, SSL certificate, SPNEGO and SSO
 - User enrollment
 - Setting up explicit authentication via a captive portal
- Virtual private networks
 - IPsec VPN (IKEv1 and IKEv2): concepts and overview
 - Site-to-site tunnels with pre-shared keys
 - Virtual Tunneling Interface
- SSL VPN
 - How it works
 - Configuration

Certification exam



To obtain certification, trainees must complete an online exam containing 70 questions within 1.5 hours.

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.