



# CSNA TRAINING – COURSE OUTLINE

## Certified Stormshield Network Administrator (NT-CSNA)

### STORMSHIELD SAS training organisation

#### Introduction

The purpose of this training is to introduce the Stormshield Network Security product range and its basic functions.

#### Audience

IT managers, Network administrators, all IT technicians.

#### Teaching methods and training objectives



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, practical exercises (labs) and their corrections. Trainees are given access to a full-scale technical environment so that they can put into practice what they learn during the course.



To allow trainees to keep their expertise up to date, all updated versions of courseware are available in PDF for three years on our platform <https://institute.stormshield.eu>. On this platform, trainees will also have access to a virtual environment in which they can operate the appliance and replay lab exercises at their own pace.

Upon completion of the training, trainees will have acquired the following skills:

- handling an SNS firewall and understanding how it works
- configuring a firewall in a network
- defining and implementing filtering and routing policies
- configuring access control for websites in http and https (proxy) modes
- configuring authentication policies
- implementing different types of virtual private network (IPsec VPN and SSL VPN)

#### Location, duration and sign-up

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.

The duration of the CSNA course is 21 hours over three consecutive 7-hour days for in-person sessions, or one 7-hour day and four half-days lasting 3.5 hours for the online version.

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)). Each session is open to a maximum of eight trainees.



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### Rate

The public price of the course is €2250 before tax for 21 hours of course time and two certification attempts online.

### Prerequisites and equipment

Good knowledge of TCP/IP; previous network training is an advantage.

The hardware requirements depend on the format of the session.

In-person:

- Laptop, preferably running in a Windows operating system (physical or virtual with bridged network access) with administrator privileges, on which the following applications are installed: Firefox, PuTTY (or any other SSH client), WinSCP (or an equivalent SCP client), Wireshark, VirtualBox or VMWare equivalent (VMWare Workstation Player or Pro).

Online:

- 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
- Internet access of at least 2 Mbps
- A second monitor of at least 22 inches is recommended

### Detailed description

- Introduction of trainees (round table)
- Training curriculum and certifications
- Introduction to Stormshield and its products
- Getting started with the firewall
  - o Registering with the customer area and access to technical resources
  - o Initialising the box and introduction to the administration interface
  - o System configuration and administration rights
  - o Installing the licence and updating the system version
  - o Backing up and restoring a configuration
- Logging and monitoring
  - o Introduction to logging categories
  - o History graphs and monitoring
- Objects
  - o Concept of an object and types of usable objects
  - o Network objects and router
- Network configuration
  - o Methods of configuring a box on a network
  - o Interface types (Ethernet, modem, bridge, VLAN, GRE/TAP)
  - o Routing types and priorities



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- Network address translation (NAT)
  - o Translation of outbound data streams (masquerading)
  - o Translation of inbound data streams (redirection)
  - o Bidirectional translation (one-to-one translation)
- Filtering
  - o General information on filtering and concept of connection tracking (stateful)
  - o Detailed introduction to the parameters of a filter rule
  - o Ordering of filtering and translation rules
- Application protection
  - o Implementing http and https URL filtering
  - o Configuring antivirus scanning and Breach Fighter detonation scanning
  - o Intrusion prevention module and security inspection profiles
- Users and authentication
  - o Directory configuration
  - o Introduction to the various authentication methods (LDAP, Kerberos, Radius, SSL Certificate, SPNEGO, SSO)
  - o User enrolment
  - o Implementing explicit authentication via captive portal
- Virtual private networks
  - o IPsec VPN concepts and general information (IKEv1 and IKEv2)
  - o Site-to-site with pre-shared key
  - o Virtual Tunnelling Interface
- SSL VPN
  - o Operating principle
  - o Configuration

### Certification exam



Certification consists of an online exam (1hr 30 mins, 70 questions).

Certification requires a score of at least 70%.

The exam is automatically available on the day following the end of training, for a duration of three weeks, on the <https://institute.stormshield.eu> website. In the event of failure, or inability to take the exam within this time slot, a second and last exam opportunity automatically opens immediately afterwards for a duration of one additional week.