



Arrow ECS Finland Oy - Education Services

## TRAINING OFFERING

---

**You can reach us at:**

Arrow ECS Finland Oy, Lars Sonckin kaari 16, 02600 Espoo, Finland

Email: [education.ecs.fi@arrow.com](mailto:education.ecs.fi@arrow.com)

Phone: 0870 251 1000



# Check Point Certified Security Expert (CCSE) & Troubleshooting Expert (CCTE) Bundle R81.20

CODE:	LENGTH:	PRICE:
CKT_CCSECCTE_R81.20	40 Hours (5 days)	€4,430.00

## Description

This bundle course covers the following two Check Point training courses:  
Check Point Certified Security Expert (CCSE) R81.20 (3 days) And  
Check Point Certified Troubleshooting Expert (CCTE) R81.20 (2 days)

## Audience

- Technical professionals who support, install deploy or administer Check Point products.
- Security experts and Check Point resellers who desire to obtain the necessary knowledge required to perform more advanced troubleshooting skills while managing their security environments.

## Programme

Objectives CCSE:

- Identify basic interfaces used to manage the Check Point environment.
- Identify the types of technologies that Check Point supports for automation.
- Explain the purpose of the Check Management High Availability (HA) deployment.
- Identify the workflow followed to deploy a Primary and solution Secondary servers.
- Explain the basic concepts of Clustering and ClusterXL, including protocols, synchronization, connection stickyness.
- Identify how to exclude services from synchronizing or delaying synchronization.
- Explain the policy installation flow.
- Explain the purpose of dynamic objects, updatable objects, and network feeds.
- Understand how to manage user access for internal and external users.
- Describe the Identity Awareness components and configurations.
- Describe different Check Point Threat Prevention solutions.
- Articulate how the Intrusion Prevention System is configured.
- Obtain knowledge about Check Point's IoT Protect.
- Explain the purpose of Domain-based VPNs.
- Describe situations where externally managed certificate authentication is used.

- Describe how client security can be provided by Remote Access.
- Discuss the Mobile Access Software Blade.
- Explain how to determine if the configuration is compliant with the best practices.
- Define performance tuning solutions and basic configuration workflow.
- Identify supported upgrade and migration methods and procedures for Security Management Servers and dedicated Log and SmartEvent Servers.
- Identify supported upgrade methods and procedures for Security Gateways.

#### Exercises CCSE:

- Navigate the Environment and Using the Management API
- Deploy Secondary Security Management Server
- Configure a Dedicated Log Server
- Deploy SmartEvent
- Configure a High Availability Security Gateway Cluster
- Work with ClusterXL
- Configure Dynamic and Updateable Objects
- Verify Accelerated Policy Installation and Monitoring Status
- Elevate Security with HTTPS Inspection
- Deploy Identity Awareness
- Customize Threat Prevention
- Configure a Site-to-Site VPN with an Interoperable Device
- Deploy Remote Access VPN
- Configure Mobile Access VPN
- Monitor Policy Compliance
- Report SmartEvent Statistics
- Tuning Security Gateway Performance

#### Objectives CCTE:

- Identify and use Linux-based and Check Point commands and tools for system monitoring, file editing, and file viewing.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Management Server and API Server issues.
- Investigate and troubleshoot traffic or security-related issues using logs and events monitoring tools.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Security Gateway issues.
- Demonstrate an understanding of advanced troubleshooting tools and techniques for kernel debugging.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Access Control issues.

- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Identity Awareness issues.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Site-to-Site VPN Troubleshooting issues.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Client-toSite VPN Troubleshooting issues.

#### Exercises CCTE:

- Collect and read live and historical CPView data.
- Troubleshoot CPM and SmartConsole login issues.
- Restore a Management High Availability environment from a temporary Primary Down condition.
- Troubleshoot SmartLog processes.
- Collect and interpret user mode debugs.
- Collect and interpret kernel debugs.
- Debug Unified Policy Inspection in kernel to understand match process.Debug the Identity Awareness user mode processes.
- Collect and interpret Site-to-Site VPN Debugs.
- Collect and interpret Remote Access VPN Debugs.

### Follow on courses

If you already attended our CCSA + CCTA courses and successfully passed the respective exams:

Attend two additional Infinity Specialization courses and pass their exams to automatically become a Check Point Certified Security Master Elite (CCSM Elite).

If you are already holding a CCSA and you successfully passed the CCSE and CCTE exam:

Attend three additional Infinity Specialization courses and pass their exams to automatically become a Check Point Certified Security Master Elite (CCSM Elite).

### Test and Certification

This course bundle prepares you for exams #156-315.81.20 (CCSE) and #156-587 (CCTE) at [www.VUE.com/checkpoint](http://www.VUE.com/checkpoint) Note: Exam vouchers need to be purchased separately at additional cost.

### Further Information

Please note that Check Point only offer e-kit courseware for training courses. Each delegate will be provided with an official set of e-kit courseware approximately 1 week prior to the start date of the course.

### Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
16 Sep 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€4,430.00
04 Nov 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€4,430.00
16 Sep 2024	Espoo Arrow Classroom (CET / UTC +1)		English	Instructor Led Online		€4,430.00
04 Nov 2024	Espoo Arrow Classroom (CET / UTC +1)		English	Instructor Led Online		€4,430.00

### Additional Information

This training is also available as onsite training. [Please contact us to find out more.](#)