



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

---

**You can reach us at:**

Arrow Enterprise Computing Solutions Ltd, Part 1st Floor, Suite 1D/1, Central House, Otley Road, Harrogate, HG3 1UG

Email: [educationteam.ecs.uk@arrow.com](mailto:educationteam.ecs.uk@arrow.com)  
Phone: 0870 251 1000



# Check Point Certified Troubleshooting Expert (CCTE) R81.10 (includes 180 days' lab access)

| CODE:          | LENGTH:           | PRICE:    |
|----------------|-------------------|-----------|
| CKT_CCTE_R81.X | 16 Hours (2 days) | £1,595.00 |

## Description

The Check Point Certified Troubleshooting Expert (CCTE) provides advanced troubleshooting skills to investigate and resolve more complex issues that may occur while managing your Check Point security environment.

## Objectives

- Demonstrate understanding how to use advanced troubleshooting tools and techniques including: Interpreting diagnostic data with CPInfo, Collecting and reading statistical data using CPView, and Advanced troubleshooting risks.
- Describe the use of Logs and SmartEvent in troubleshooting.
- Describe the log indexing system and issues that can occur.
- Discuss methods to troubleshoot log indexing in SmartLog and SmartEvent.
- Explain the databases used in Security Management operations.
- Identify common troubleshooting database issues.
- Discuss Management Processes.
- Demonstrate understanding of advance troubleshooting tools and techniques including:
  - o How the kernel handles traffic,
  - o How to troubleshoot issues using chain modules,
  - o How to use the two main procedures for debugging the Firewall kernel, and
  - o How the two main procedures for debugging the Firewall kernel differ.
- Demonstrate understanding of user mode debugging, including collecting and interpreting process debugs.
- Debug user mode processes.
- Discuss advanced Identity awareness troubleshooting.
- Learn to run debugs on Identity Awareness.
- Explain Unified Access Control flow and processes.
- Explain Access Control kernel debugs.
- Describe Access Control process debugs.
- Explain basic and advanced Site-to-Site VPN troubleshooting tools and techniques, including:
  - o Packet captures, IKE debugs, and VPN process debugs.
- Explain Client-to-Site VPN troubleshooting tools and techniques, including:
  - o Remote access troubleshooting and Mobile access troubleshooting.

## Audience

This course is designed for 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

## Prerequisites

- Working knowledge of UNIX and/or Windows operating systems,
- Working knowledge of Networking,
- TCP/IP,
- CCSE training/certification,
- Advanced knowledge of Check Point Security Products.

## Programme

- Advanced Troubleshooting Techniques
- Advanced Logs and and Monitoring
- Management Database and Processes
- Advanced Kernel Debugging
- User Mode Troubleshooting
- Advanced Identity Awareness Troubleshooting
- Advanced Access Control
- Site-to-Site VPN Troubleshooting
- Client-to-Site VPN Troubleshooting
- Collecting and Reading CPInfo
- Collecting and Reading CPView Data
- Troubleshooting SmartLog
- Troubleshooting SmartEvent
- Troubleshooting Database Issues
- Debugging Security Gateway Kernel
- Debugging User Mode Processes
- Debugging Identity Awareness
- Debugging Unified Policy Inspection
- Troubleshooting Site-to-Site VPN
- Debugging Remote Access VPN

## Follow on courses

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

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

- Check Point Certified Endpoint Specialist (CCES)
- Check Point Certified Troubleshooting Administrator (CCTA)
- Check Point Certified Automation Specialist (CCAS)
- Check Point Certified Cloud Specialist (CCCS)
- Check Point Certified MDSM Specialist (CCMS)
- Check Point Certified VSX Specialist (CCVS)
- Check Point Certified Troubleshooting Expert (CCTE)

Choose from the following Infinity Specialization courses: • Check Point Certified Maestro Expert (CCME)

## Test and Certification

Prepare for exam #156.585 at [www.vue.com/checkpoint](http://www.vue.com/checkpoint)

An exam voucher can be purchased at an additional charge – please contact us for further information.

Full information on Check Point's Certification Program can be viewed at <https://www.checkpoint.com/downloads/training/checkpoint-certification-faq.pdf>

## 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.

## Session Dates

On request. Please [Contact Us](#)

## Additional Information

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