

## Check Point Certified Troubleshooting Expert (CCTE) R81.20 (includes 180 days' lab access)

**Duration: 2 Days**    **Course Code: CKT\_CCTE**    **Delivery Method: Virtual Learning**

### Overview:

The 2-day 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.

#### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target 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.

### 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.
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## 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.

## Testing and Certification

This course prepares you for exam #156-585 at [www.VUE.com/checkpoint](http://www.VUE.com/checkpoint)  
Exam vouchers are available at an additional cost - please ask for details.  
Full information on Check Point's Certification Program can be viewed at <https://www.checkpoint.com/downloads/training/check-point-certification-faq.pdf>

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## 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).

Choose from the following Infinity Specialization courses:

- 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)
- Check Point Certified Maestro Expert (CCME)
- Check Point Certified Cloud Network Security Expert for AWS (CNSE-AWS)
- Check Point Certified Cloud Network Security Expert for Azure (CNSE-AZURE)

## Content:

### Course Topics:

- 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

### Lab Exercises:

- 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

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## Additional 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.

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

[info@globalknowledge.co.uk](mailto:info@globalknowledge.co.uk)

[www.globalknowledge.com/en-gb/](http://www.globalknowledge.com/en-gb/)

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK