

## Troubleshooting and Maintaining Cisco IP Networks

TSHOOT

### Course Description

This five day course is designed to provide professionals who work in complex network environments with the skills that they need to maintain their networks and to diagnose and resolve network problems quickly and effectively. The course will provide information about troubleshooting and maintaining particular technologies, as well as procedural and organizational aspects of the troubleshooting and maintenance process. A large part of the training will consist of practicing these skills and reinforcing the concepts by putting them to use in a controlled environment. At the end of the course, delegates will have increased their skill level and developed a set of best practices based on their own experiences and those of other delegates that they can then take back into their own organizations.

#### After you complete this course you will be able to:

- Plan and document the most commonly performed maintenance functions in complex enterprise networks
- Develop a troubleshooting process to identify and resolve problems in complex enterprise networks
- Select tools that best support specific troubleshooting and maintenance processes in large, complex enterprise networks
- Practice maintenance procedures and fault resolution in switching based environments
- Practice maintenance procedures and fault resolution in routing based environments
- Practice maintenance procedures and fault resolution in a secure infrastructure
- Troubleshoot and Maintain integrated complex enterprise networks.

### Who should attend?

This course is intended for Network professionals who want to increase their skills at maintaining and troubleshooting complex Cisco IP networks. This course is required for those looking to achieve the Cisco CCNP® Certification.

### Prerequisites

Attendees should meet the following prerequisites:

- Valid CCNA (ICND1, ICND2 or CCNABC)
- ROUTE - Implementing Cisco IP Routing
- SWITCH - Implementing Cisco Switched Networks

Practical experience in installing, operating and maintaining Cisco routers & switches in an enterprise environment is recommended.

### Certification & Tests

Recommended preparation for exam(s):

642-832 TSHOOT - Troubleshooting and Maintaining Cisco IP

This exam is required for those delegates wishing to achieve either the Cisco Certified Network Professional Certification.

### Duration

5 days

Kontakt os eller se [www.kompetencecenteret.dk](http://www.kompetencecenteret.dk) for planlagte datoer.



### Kursusindhold

#### Planning Maintenance for Complex Networks

Applying Maintenance Methodologies  
Common Maint. Processes and Procedures  
Network Maintenance Tools, Applications, and Resources

#### Plan. Troubleshooting Processes for Complex Enterprise Networks

Applying Troubleshooting Methodologies  
Planning and Implementing Troubleshooting Procedures  
Integrating Troubleshooting into the Network Maintenance Process

#### Maintenance and Troubleshooting Tools and Applications

Assembling a Basic Diagnostic Toolkit Using Cisco IOS Software  
Using Specialized Maintenance and Troubleshooting Tools

#### Maintain. & Troubleshooting Campus Switching Based Solutions

Troubleshooting VLANs  
Troubleshooting Spanning Tree  
Troubleshooting Switched Virtual Interfaces and Inter-VLAN Routing  
Troubleshooting First Hop Redundancy Protocols (FHRPs)  
Troubleshooting Performance Problems on Switches  
Preview of E-Learning on Campus Switching Technologies

#### Maintaining and Troubleshooting Routing Based Solutions

Troubleshoot. Network Layer Connectivity  
Troubleshooting EIGRP  
Troubleshooting OSPF  
Troubleshooting Route Redistribution  
Troubleshooting BGP  
Troubleshooting Performance Problems on Routers  
Preview E-Learning on Additional Routing Technologies

#### Maintaining and Troubleshooting Network Security Solutions

Troubleshooting Security Features  
Security Features Review  
Preview of E-Learning products on Additional Security Troubleshooting

#### Maintaining and Troubleshooting Integrated, Complex Enterprise Networks

Troubleshooting Complex Environments.



### Kontakt og tilmelding

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