

## ASSOCIATE

# CCNA

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### [CCNA](#)

by [admin](#)

Describe the purpose and functions of various network devices

Select the components required to meet a network specification

Use the OSI and TCP/IP models and their associated protocols to explain how data flows in a network

Describe common networked applications including web applications

Describe the purpose and basic operation of the protocols in the OSI and TCP models

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## PROFESSIONAL

# CCNP ROUTING

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## CCNP ROUTING

by [admin](#)

The Implementing Cisco IP Routing (ROUTE 642-902) is a qualifying exam for the Cisco Certified Network Professional CCNP®, Cisco Certified Internetwork Professional CCIP®, and Cisco Certified Design Professional CCDP® certifications. The 2hour, 45-55 question exam will certify that the successful candidate has the knowledge and skills necessary to use advanced IP addressing and routing in implementing scalable and secure Cisco ISR routers connected to LANs and WANs. The exam also covers configuration of secure routing solutions to support branch offices and mobile workers. The exam is closed book and no outside reference materials are allowed.

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# CCNP SWITCHING

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## CCNP SWITCHING

by [admin](#)

The 642-813 exam is a two-hour test with 35–45 questions. Implementing Cisco IP Switched Networks (SWITCH 642-813) is a qualifying exam for the Cisco Certified Network Professional CCNP®, and Cisco Certified Design Professional CCDP® certifications. The SWITCH 642-813 exam will certify that the successful candidate has important knowledge and skills necessary to plan, configure and verify the implementation of complex enterprise switching solutions using Cisco's Campus Enterprise Architecture. The SWITCH exam also covers secure integration of VLANs, WLANs, voice and video into campus networks. The exam is closed book and no

outside reference materials are allowed.

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## CCNP TROUBLESHOOTING

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## EXPERT

# CCIE

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## [CCIE](#)

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