

## CCNA Security



Security and risk management skills are among the most highly sought after skills in networking, and global demand continues to grow. Organizations around the world are experiencing a shortage of qualified information and communication technology (ICT) candidates with the specialized knowledge and skills needed to administer devices and applications in a secure infrastructure, recognize network vulnerabilities, and mitigate security threats.

### About the Course

The Cisco Networking Academy® CCNA® Security course provides a next step for individuals wanting to enhance their CCENT-level skills and help meet the growing demand for network security professionals. The curriculum provides an introduction to the core security concepts and skills needed for installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and devices.

CCNA Security includes the following features:

- Students develop an in-depth, theoretical understanding of network security principles as well as the tools and configurations available.

- The course emphasizes the practical application of skills needed to design, implement, and support network security.
- Hands-on labs help students develop critical thinking and complex problem-solving skills.
- Packet Tracer simulation-based learning activities promote the exploration of networking security concepts and allow students to experiment with network behavior, asking "what if" questions.
- Innovative assessments provide immediate feedback to support the evaluation of knowledge and acquired skills.

Who Should Enroll	Prerequisites
Students seeking career-oriented, entry-level security specialist skills	<ul style="list-style-type: none"> <li>• CCENT-level networking concepts and skills</li> </ul>
IT professionals wishing to broaden or add specialized skills to their technology expertise	<ul style="list-style-type: none"> <li>• Basic PC and Internet navigation skills</li> </ul>
Current CCENT certification holders who wish to build on their CCENT knowledge base	

### Course Description

CCNA Security is a hands-on, career-oriented e-learning solution with an emphasis on practical experience to help students develop specialized security skills to advance their careers. The curriculum prepare students for entry-level security career opportunities Implementing Cisco Network Security (IINS) certification exam (210-260) leading to the Cisco CCNA Security certification.

CCNA Security can be delivered as an independent curriculum or integrated into a broader course of study, such as technology or continuing education programs. All hands-on labs in the course can be completed on actual physical equipment or in conjunction with the NDG NETLAB solution, which provides remote access to equipment over the Internet.

## Course Outline

Chapter	Goals
1. Modern Network Security Threats	CCENT-level networking concepts and skills
2. Modern Network Security Threats	Basic PC and Internet navigation skills
3. Authentication, Authorization and Accounting	Implement AAA on Cisco routers using local router database and server-based ACS or Identity Service Engine (ISE).
4. Implementing Firewall Technologies	Implement firewall technologies to secure network perimeter.
5. Implementing Intrusion Prevention	Implement IPS to mitigate attacks on networks.
6. Securing the Local Area Network	Secure endpoints and mitigate common Layer 2 attacks.
7. Cryptographic Systems	Secure communications to ensure integrity, authenticity and confidentiality.
8. Implementing Virtual Private Networks (VPNs)	Implement secure Virtual Private Networks.
9. Implementing Cisco the Adaptive Security Appliance (ASA)	Implement an ASA firewall configuration using the CLI.
10. Advanced Cisco Adaptive Security Appliance	Implement an ASA firewall configuration and VPNs using ASDM
11. Managing a Secure Network	Test network security and create a technical security policy.

## About Cisco Networking Academy

In partnership with schools and organizations around the world, the Cisco Networking Academy program delivers a comprehensive learning experience to help students develop information and communication technology (ICT) skills for entry-level career opportunities, continuing education, and globally recognized career certifications.

Networking Academy teaches ICT skills to students from virtually every socioeconomic background and region of the world. Students gain the skills needed to pursue networking careers in a variety of industries such as healthcare, technology, financial services, fashion, entertainment, and more. Students also gain access to a global support group, career developments tools, and social networking resources to help them become architects of the human network.

## For More Information

Cisco Networking Academy

[www.netacad.com](http://www.netacad.com)

Course Catalog

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