

Delivery Methods

- Train the Trainer
- Instructor-led training
- Remote and synchronous training with webex

Course Duration

- Pre and post remote synchronous training with WebEx
- Two days of instructor-led training
- 60% lecture, 40% hands-on lab

Target Audience

Faculty interested in teaching a comprehensive network security course offered through the Cisco Networking Academy Program or expanding their knowledge base.

Course Overview

The Cisco Networking Academy has released a new CCNA level network security curriculum.

This course provides students with in-depth network security education and a comprehensive understanding of network security concepts. The course is designed to provide students with hands-on knowledge and skills, emphasizing practical experience needed for entry-level job roles in network security. This curriculum reflects the latest network security technologies and provides hands-on exercises.

The hands-on exercises teach installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices.

CCNA Security provides a next step for CCNA Discovery or CCNA Exploration students who want to expand their CCNA-level skill set to prepare for a career in network security.

The class is designed to prepare faculty for CCNA Security certification (IINS 640-553 exam).



Prerequisites:

The following skills and knowledge are recommended:

- CCNA Level Networking Knowledge or Equivalent or previous experience teaching prior Cisco Networking Academy security courses
- High school, 2 or 4 year college instructor full time or adjunct
- Currently working for an active or potential Cisco Networking Academy

Participants are required to complete the CCNA Discovery or CCNA Exploration curricula or equivalent to acquire the fundamental CCNA-level routing and switching skills needed for success in this course.

Course Objectives:

CCNA Security helps participants develop the skills needed to succeed in IT-related degree programs and prepare for the CCNA Security certification. It provides a theoretically rich, hands-on introduction to network security, in a logical sequence driven by technologies.

The goals of CCNA Security are as follows:

- Provide an in-depth, theoretical understanding of network security.
- Provide students with the knowledge and skills necessary to design and support network security.
- Provide an experience-oriented course that employs industry-relevant instructional approaches to prepare students for associate-level jobs in the industry.
- Enables students to have significant hands-on interaction with IT equipment to prepare them for certification exams and career opportunities.

Upon completion of the CCNA Security course, students will be able to perform the following tasks:

- Describe the security threats facing modern network infrastructures.
- Secure network device access.
- Implement AAA on network devices.
- Mitigate threats to networks using ACLs.
- Implement secure network management and reporting.
- Mitigate common Layer 2 attacks.
- Implement the Cisco IOS firewall feature set.
- Implement the Cisco IOS IPS feature set.
- Implement site-to-site IPSec VPNs.
- Administer effective security policies.