

CIT249 : Enterprise Networking, Security, and Automation (Cisco 3)

This third course in the Cisco Certified Network Associate (CCNA) curriculum describes architectures related to designing, securing, operating, and troubleshooting enterprise networks. Wide area network (WAN) and quality of service (QoS) used for secure remote access, software-defined networking, virtualization, and automation concepts are included. Students configure and troubleshoot networks, identify and protect against cybersecurity threats, use network management tools and learn software-defined networking, including controller-based architectures and application programming interfaces (APIs) for network automation.

Credits 4

Prerequisite Courses

[CIT248: Switching, Routing & Wireless Essentials \(Cisco 2\)](#)

Semester Offered

Fall

Spring