

CIT, CISCO CERTIFIED NETWORK ASSOCIATE, ICLC



Connect Networks. Build Your IT Future.

The Network Administration Cisco learning pathway prepares students to install, configure, maintain, and troubleshoot computer networks and networking infrastructure used in business and industry. The CIT, Cisco Certified Network Associate, ICLC provides focused training in networking concepts and Cisco technologies, including network fundamentals, switching, routing, wireless networking, security, and enterprise network operations. The credential develops practical networking skills and supports continued education within San Jacinto College's Network Administration Cisco pathway.

Career Opportunities and Income

Visit the Department Website (<https://www.sanjac.edu/programs/areas-of-study/stem/cloud-computing/>) for information regarding career opportunities and potential earnings in the Greater Houston region.

Learning & Career Pathway

The learning pathway for this career track has a series of related and "stacked" certificates and degrees. You may start at any point on the pathway and earn the certificates on your way to completing the degree.

- CIT, Cisco Certified Network Associate, ICLC (p. 1) (3 months)
- CIT, Network Administration Cisco Specialty, Certificate of Technology (<https://publications.sanjac.edu/areas-study/science-technology-engineering-math/cit-network-administration-cisco-specialty-certificate-technology/>) (1 year)
- CIT, Information Technology Specialist, Associate of Applied Science (<https://publications.sanjac.edu/areas-study/science-technology-engineering-math/cit-information-technology-specialist-aas/>) (2 years)

Learning Outcomes and Career Skills

A student completing the last award in the pathway will be able to:

- Describe the major characteristics of a cloud computing environment including the roles and boundaries between a cloud provider and cloud consumer.
- Define cloud security threats and vulnerabilities and describe cloud security mechanisms.
- Define and distinguish between cloud infrastructure mechanisms such as virtual servers, storage, usage, and monitoring.
- Install, configure, troubleshoot, and utilize Linux systems.
- Design and administer a database.

Locations

- Central (<https://www.sanjac.edu/about/locations/central/>)
- North (<https://www.sanjac.edu/about/locations/north/>)
- South (<https://www.sanjac.edu/about/locations/south/>)

College Admission

San Jacinto College is an open admission institution. All students are welcome to apply and will be admitted to the College. You may begin the process on the College's "How to Apply (<https://www.sanjac.edu/admissions/how-to-apply/>)" webpage.

Program Admission

There are no additional admission requirements for this program; you only need to complete your application to the College, as noted in "College Admission" above, and follow the enrollment steps.

Plan of Study

IC-CISCO

Course	Title	Credits
First Year		
First Term		
ITCC 1314	CCNA 1: Introduction to Networks	3
ITCC 1344	CCNA 2: Switching, Routing, and Wireless Essentials	3
ITCC 2320	CCNA 3: Enterprise Networking, Security, and Automation	3
Credits		9
Total Credits		9

Licensure or Certification: CCNA (Cisco Certified Network Associate)