



Certification Overview



Huge demand for Networking Professionals

Due to the high pace of information technology there's an ever increasing demand for skilled network professionals and engineers. In fact, there are not nearly enough qualified people in the world to fill these roles at the rate in which they are needed. What's needed today are people who are versed in the full stack of networking technologies. Even entry-level IT jobs are now in need of folks who can hit the ground running with well-rounded skills. NexGenT focuses on helping people make successful careers in this high demand field with hands-on skills training and career guidance.

Certification Program

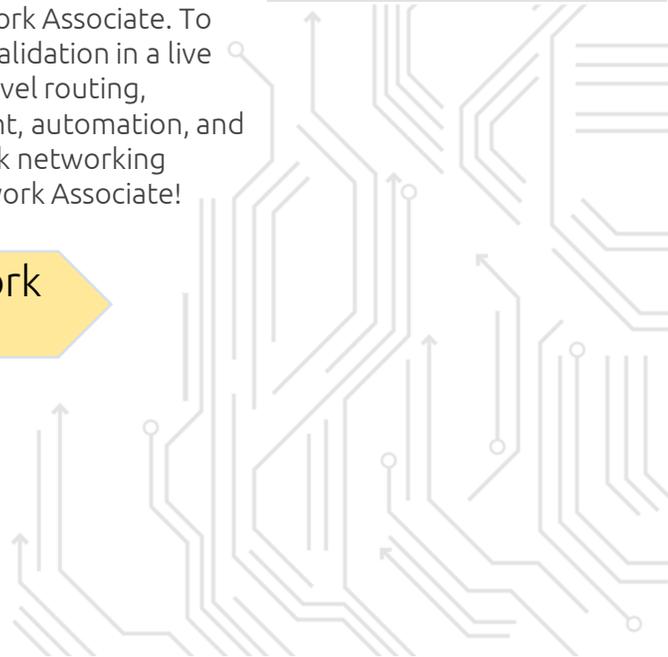
The Full Stack Network Associate (FSNA) Certification is built upon the foundation of the Zero To Engineer program. Students who participate in the Zero to Engineer program will learn the concepts and skills needed to become a Full Stack Network Associate. To obtain the FSNA title students will need to complete in-person skills validation in a live networking lab. The FSNA title certifies that you are versed in entry-level routing, switching, cyber security, wireless, voice over IP, network management, automation, and cloud networking. After being rigorously skills tested in a live full stack networking environment candidates deserve to garner the title of Full Stack Network Associate!

Benefits

- Become versed in full stack networking technology
- Learn practical skills without all the fluff
- Prove yourself with hands-on skills validation
- Break into the high demand and ever evolving Information Tech industry
- Become known as a Full Stack Network Associate

Zero To Engineer

Full Stack Network Associate





Certification Overview

The FSNA is a comprehensive certification that focuses on in-person validation. There are many entry-level certifications that focus on concepts, paper studies, and memorization with multiple choice questions. The FSNA is in a league of it's own with a primary focus of hands-on skills training and in-person validation of those skills. In order to garner the FSNA title students must perform a skills check at an in-person training lab on-site in San Jose, CA.

- In-Person Skills Check: One day on-site at a designated NexGenT training lab facility. Students will be skills validated by a certified NexGenT Instructor.

IT Architectures

- Enterprise Networks
- Cyber Security
- Data Center & Virtualization
- Collaboration
- Cloud
- Automation
- Internet of Things

Networking Fundamentals

- The OSI Model
- MAC and Frames
- IP and Common Protocols
- Host to Host Communication
- Collision & Broadcast Domains
- Network Devices
- Network Topologies

Network Infrastructure Cabling

- Cable Types and Connectors
- Cable Making

IP Addressing

- IPv4 Subnetting
- Access Control Lists
- IPv6 Overview

Network Device Installation

- Rack Mounting Gear
- Connecting and Configuring
- Cisco IOS Configuration
- Protect the Management Plane
- Observe Device Information

Switching Concepts & Protocols

- VLANs, Trunking & VTP
- Spanning Tree Protocol
- Port Aggregation
- Power over Ethernet

LAN Switching

- Configure a Cisco IOS Access Switch
- Observe the Basic Switch Functions
- Connect & Identify Hosts
- Identify Port Problems

Routing Concepts & Protocols

- Static & Dynamic Routing
- Interior & Exterior Gateway Protocols

Branch Routing

- Interface Configuration
- Dot1q Trunking
- Configuring Access Control Lists
- Network Address Translation
- IOS Firewall Inspection
- Private WAN & BGP

WAN Technologies

Enhancing WAN connectivity

- Automated WAN/VPN Failover
- WAN Quality of Service

Voice over IP & Unified Communications

- VoIP Devices & Protocols
- IP Phone Installation

Cloud & Virtualization

- Cloud Networking with Cisco Meraki
- Wireless LAN Concepts, Types and Configuration
- Cyber Security Concepts and Standards
- Network Management Techniques

Network Automation Basics

Engineer Tools & Software

Engineer Soft Skills

- Diagramming
- Presenting

Building Your Own Labs & Staying Relevant

- Physical & Virtual Labs
- Researching Technologies