

The Zero to Engineer (ZTE) program is designed to help you jumpstart your IT career and master the most in-demand IT networking skills. Our hands-on approach and live 1:1 mentorship will enable you to truly understand the big picture of the IT industry and provide you with what you need to succeed in your career.

The ZTE Program is comprised of 7 primary modules, which include a completely hands-on full stack networking project, where you will learn what it's like to roll out an I.T. project from start to finish. In addition, the program will prepare you for the coveted Full Stack Network Associate certification, which you will complete in a 5 day boot camp on our campus.

For a limited time the ZTE program comes with three bonus courses that will help you in obtaining your Network+ certification and land your dream I.T. job. To get started all you need is a modern computer and internet connection.

Modules

1. Getting Started
2. IT Architectures and Trends
3. IT and Network Essentials
4. How To Build Your Own Labs
5. Real World Engineer Skills
6. Full Stack Networking Project
7. Full Stack Network Associate Certification

- ★ Bonus: Network+ Certification Course
- ★ Bonus: Python Network Programming Course
- ★ Bonus: Land Your Dream Job Course

Requirements

- Computer with Internet connection and PDF viewer
- Labs performed with Cisco Packet Tracer

Lab Technical Requirements

- CPU: minimum Intel Pentium 4 2.53 GHz
- RAM: 512 MB Free
- HDD: 600 MB of free disk space
- OS: Windows 7, 8.1, 10, Ubuntu Linux 12.04 LTS or 14.04 LTS, or Apple Mac OSX

Instructors

Our instructors have 30+ years of experience combined, have graduated 1000+ IT students for the U.S. Military, and have worked all across the industry for amazing companies including Cisco and Arista.



"During our time in the military we trained over 1,000 engineers, most of which went on to set up and manage live networks all around the world"

- Terry Kim and Jacob Hess

Module 1: Getting Started

In this module you will gain industry insights into becoming a Network or Systems Engineer! By the end, you will know what it takes to break into IT and understand your career path options.

Lessons (3.5 hrs)

- Intro and Platform Tour
- Program Overview
- Become a Full Stack Network Engineer
- Step by Step Career Blueprint
- The World of Certifications

Module 2: IT Architectures and Trends

In this module you will learn all about today's IT architectures and trends. You will also learn about Cisco systems and other industry leader product portfolios, trends that are shaping the future of our industry, and various use cases around core architectures and trends.

Lessons (8 hrs)

- Enterprise Networks
- Security
- Data Center and Virtualization
- Collaboration
- IT Trends in 2017 and beyond

Module 3: IT and Network Essentials

In this module you'll learn the most essential concepts related to IT and networking. By the end, you'll understand what computer networks are all about and all the important protocols, standards, and technologies used in IT, which will give you the strongest IT foundation.

Lessons (30 hrs)

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|-----------------------------------|-----------------------|----------------------------|
| • What is a Network? | • VLANs | • Device Components |
| • Bits, Bytes and Ethernet Frames | • ARP | • Network Devices |
| • MAC, Hubs & Switches | • TCP, UDP & Ports | • IP Addressing |
| • Broadcast Domains | • The OSI Model | • Subnetting - Class C |
| • Ethernet | • Network Topologies | • Subnetting - Class B |
| • Intro to IP and Routing | • Cables & Connectors | • Intro to IP Access Lists |
| | • Cable Making | • How Routers Route |

Module 4: How to Build Your Own Labs

Get ready for labs! In this module you'll be introduced to the world of personal labs and you'll get insights into the best methods to get up and running with your own labs.

Lessons (6.5 hrs)

- How to Build a Home Lab
- Cisco Packet Tracer Installation
- Packet Tracer Lab - Intro to Cisco CLI
- Packet Tracer Lab – DHCP
- Packet Tracer Lab - NAT with IOS Firewall
- Packet Tracer Lab - Spanning-Tree Protocol
- Packet Tracer Lab - Host Tracking
- How to Install GNS3
- How to Connect to a Console Port

Module 5: Real World Engineer Skills

This module is all about giving you insights directly from the field. You'll learn about the top systems engineer (SE) skills to master, important tools, and how to think like an engineer.

Lessons (9hrs)

- Top SE Skills to Master
- Engineer Software Tools
- Network Management
- Think Like an Engineer

Module 6: Full Stack Networking Project

By the end of this module you will understand HQ/Branch networks and the project build-out process. You will learn how to plan, design, and implement your own Full Stack Network with its own headquarters (HQ) location and two branch offices.

Lessons (40 hrs)

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|------------------------------|---------------------------------|---------------------------|
| Introduction | • Technical Introduction | • Branch 2 Route/Switch |
| • Project Methodology | • Basic Device Configuration | • Branch 2 Phones & Hosts |
| Planning Phase | • HQ Core Switching | Controlling Phase |
| • Gathering Requirements | • HQ Access Switching | • Testing |
| • Diagramming | • HQ Internet Router | • Support |
| • BoM & SoW | • HQ WAN Router | Closing Phase |
| • Presenting | • HQ Voice Router | • Closing Phase |
| Execution Phase | • HQ Server, Phones & Hosts | • Exit Video |
| • Packet Tracer Installation | • HQ Wireless | |
| | • Branch 1 Route/Switch | |
| | • Branch 1 Phones, Hosts & WiFi | |

Module 7: Full Stack Network Associate Certification

The Full Stack Network Associate (FSNA) certification is built on the foundation of the Zero to Engineer Program. In order to become FSNA certified students perform 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, and voice over IP networking. By the end of this module you'll know exactly how to achieve the certification and become known as a Full Stack Network Associate!



★ Bonus Courses ★

Network Plus Certification Course (★ Bonus)

The Network + is a strong vendor-agnostic certification that will truly enable you to strengthen your core foundational knowledge of IT and networking systems. This module will get you started on the right path to becoming a Network + certified professional.



Python Network Programming Course (★ Bonus)

Learn Python from scratch and build Python apps for automating network tasks and handling several networking vendors such as Cisco, Juniper, Arista, HP, and Avaya! Create tools for networking security and build your own network security project!



Land Your Dream IT Job Course (★ Bonus)

By the end of this course you'll learn all you need to know to accelerate your career path. You'll learn all the insights, strategies and tips that you can execute on step by step to land your dream IT job in record time.

