

EDUCATION PATHWAY

# Network Security



## Training Institute

The purpose of Education Pathways is to create a career map through Fortinet's Training Institute learning, allowing individuals to navigate their educational journey from curriculum to careers. This education pathway focuses on Network Security and the potential job opportunities that exist around the technology.

## Network Security

Network security refers to the technologies and policies used to defend any network, network traffic, and network-accessible assets from cyberattacks, unauthorized access, and data loss. It must protect at both the edge and inside the network, with a layered approach.

Networks are continually growing and evolving, and new technologies increase the attack surface and open the door to new threats. At the same time, cyber criminals are launching increasingly sophisticated attacks. The following are common challenges to securing networks:

- Network performance slowdowns
- Sophisticated, targeted attacks
- Lack of visibility into the entire network
- Complexity: too many disparate products
- Shortage of IT professionals

## Workforce Framework for Cybersecurity (NICE Framework)

The National Initiative for Cybersecurity Education (NICE) Workforce Framework for Cybersecurity (NICE Framework), published by the National Institute of Standards and Technology (NIST) in NIST Special Publication 800-181, is a nationally focused resource that establishes a common lexicon to describe cybersecurity work, and workers, regardless of where, or for whom, the work is performed.

## NICE Framework—Work Roles

Work Roles act as the most detailed groupings of cybersecurity work comprised of specific knowledge, skills, and abilities (KSAs) required to perform tasks. Work Roles are not specific job titles.



**Fortinet Training Institute courses and exams for the Network Security education pathway align to the following NICE Framework Work Roles. All candidates should also complete the Cybersecurity Security Fundamentals courses and the FortiGate Operator course.**

	FortiGate Administrator	FortiClient EMS Administrator	FortiNAC	Secure Wireless LAN	FortiAuthenticator Administrator	FortiManager Administrator	FortiSwitch	FortiAnalyzer Administrator	Enterprise Firewall	SD-WAN	LAN Edge	Network Security Support Engineer
<b>Cyber Defense Analyst</b> PR-CDA-001	✓	✓										
<b>Cyber Defense Incident Responder</b> PR-CIR-001	✓	✓	✓		✓							
<b>Cyber Defense Infrastructure Support Specialist</b> PR-INF-001	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
<b>Enterprise Architect</b> SP-ARC-001	✓						✓		✓	✓	✓	
<b>Network Operations Specialist</b> OM-NET-001	✓		✓	✓		✓	✓		✓	✓		✓
<b>Security Architect</b> SP-ARC-002	✓				✓				✓	✓	✓	
<b>System Administrator</b> OM-ADM-001	✓	✓	✓		✓			✓				✓
<b>Technical Support Specialist</b> OM-STS-001	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Threat/ Warning Analyst</b> AN-TWA-001	✓											
<b>Vulnerability Assessment Analyst</b> PR-VAM-001	✓	✓										

## NSE Certifications

Below is a list of all the NSE certifications along with requirements to achieve your certification. Click on the “Learn More” links to access the self-paced courses and see detailed information on requirements, prerequisites, recertification, duration of courses and labs, class schedules and more.

### Fortinet Certified Fundamentals in Cybersecurity [Learn More](#)

The Fortinet Certified Fundamentals (FCF) in Cybersecurity certification validates that you have mastered the technical skills and knowledge that are required for any entry-level job role in cybersecurity. This curriculum will offer courses that cover today's threat landscape and the fundamentals of cybersecurity.

Candidates must successfully complete the core course and one elective course. This certification is valid for two years from completion of the second course.



**CORE COURSE****Introduction to the Threat Landscape** [Learn More](#)

In this course, candidates will learn about the cyberthreat landscape. This landscape includes the threats that endanger computer networks, the cast of bad actors who are behind these threats, and the cybersecurity first principles that, if followed, can keep you and your computer network safe.

**ELECTIVE COURSES****Getting Started in Cybersecurity** [Learn More](#)

This course is ideal for individuals in non-technical job positions that require a high-level understanding of the most important technical fundamentals of cybersecurity. Examples of those job roles are security product salespeople and company CEOs.

**Technical Introduction to Cybersecurity** [Learn More](#)

This course is ideal for individuals in technical roles that require a more in-depth understanding of the fundamentals of cybersecurity. This course is also ideal for people that want to pursue a technical job in cybersecurity.

**Fortinet Certified Associate in Cybersecurity** [Learn More](#)

The Fortinet Certified Associate (FCA) in Cybersecurity certification validates your ability to execute high-level operations on a FortiGate device. This curriculum covers the fundamentals of operating the most common FortiGate features.

There is one certification within the FCA level. To achieve this certification, candidates must complete the FortiGate Operator course and pass the exam. The FCA certification is valid for two years from the date of passing the FortiGate Operator exam.

**FortiGate Operator** [Learn More](#)

In this course, candidates will learn how to harden the security of your network by using the most common FortiGate features. Through demos and interactive simulations, you will learn how to perform basic operation tasks on FortiGate.

**Fortinet Certified Professional in Network Security** [Learn More](#)

The Fortinet Certified Professional (FCP) in Network Security certification validates your ability to secure networks and applications by deploying, managing, and monitoring Fortinet network security products. This curriculum will cover the day-to-day tasks related to Fortinet network security devices.

You must pass the core exam and one elective exam.

**CORE EXAM****FortiGate Administrator****ELECTIVE EXAMS****FortiClient EMS Administrator****FortiManager Administrator****FortiAnalyzer Administrator****FortiAuthenticator Administrator****FortiNAC****FortiSwitch****Secure Wireless LAN**

**RECOMMENDED TRAINING****FortiGate Administrator** SKU: FT-FGT-ADM [Learn More](#)

In this course, candidates will learn how to protect their networks using the most common FortiGate features.

**FortiGate Immersion** SKU: FT-NSE4-IMM [Learn More](#)

In this lab-only course, available for purchase only, candidates are assigned a series of do-it-yourself (DIY) configuration tasks in a virtual lab environment.

**FortiClient EMS Administrator** SKU: FT-FCT [Learn More](#)

In this course, candidates will learn how to use the standalone FortiClient feature and deploy and provision FortiClient using the FortiClient EMS solution.

**FortiManager Administrator** SKU: FT-FMG [Learn More](#)

In this course, candidates will learn how to use FortiManager for the centralized network administration of many FortiGate devices.

**FortiAnalyzer Administrator** SKU: FT-FAZ-ADM [Learn More](#)

In this course, candidates will learn how to deploy, configure and secure FortiAnalyzer, as well as how to register and analyze devices. Candidates will explore the fundamentals of the logging and reporting management capabilities included in FortiAnalyzer.

**FortiAuthenticator Administrator** SKU: FT-FAC [Learn More](#)

In this course, candidates will learn how to use FortiAuthenticator for secure authentication and identity management.

**FortiNAC** SKU: FT-NAC [Learn More](#)

In this course, candidates will learn how to leverage the powerful and diverse capabilities of FortiNAC using best practices for achieving visibility, control, and response.

**FortiSwitch** SKU: FT-FSW [Learn More](#)

In this course, candidates will learn how to deploy, provision, and manage a FortiSwitch with FortiGate using FortiLink.

**Secure Wireless LAN** SKU: FT-FWF [Learn More](#)

In this course, candidates will learn how to deploy, configure, and troubleshoot secure wireless LAN using an integrated wireless solution.



## Fortinet Certified Solution Specialist in Network Security [Learn More](#)

The Fortinet Certified Solution Specialist (FCSS) in Network Security certification validates your ability to design, administer, monitor, and troubleshoot Fortinet network security solutions. This curriculum covers network security infrastructures using advanced Fortinet solutions.

You must pass a core exam and one elective exam.

### CORE EXAM

#### Enterprise Firewall

### ELECTIVE EXAMS

#### LAN Edge

#### Network Security Support Engineer

#### SD-WAN

### RECOMMENDED TRAINING

#### Enterprise Firewall SKU: FT-EFW [Learn More](#)

In this course, candidates will learn how to implement and centrally manage an enterprise security infrastructure composed of multiple FortiGate devices.

#### LAN Edge SKU: FT-SAC [Learn More](#)

In this course, candidates will learn how FortiGate, FortiAP, FortiSwitch, and FortiAuthenticator enable secure connectivity over wired and wireless networks. This course was formerly known as Secure Access.

#### Network Security Support Engineer SKU: FT-NST [Learn More](#)

In this course, candidates will learn how to diagnose and troubleshoot the most common networking and security problems in a Fortinet network security solution.

#### SD-WAN SKU: FT-SD-WAN [Learn More](#)

In this course, candidates will learn about common SD-WAN deployment scenarios using Fortinet Secure SD-WAN solutions.

### Learn more about our [NSE Certification Program](#)



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