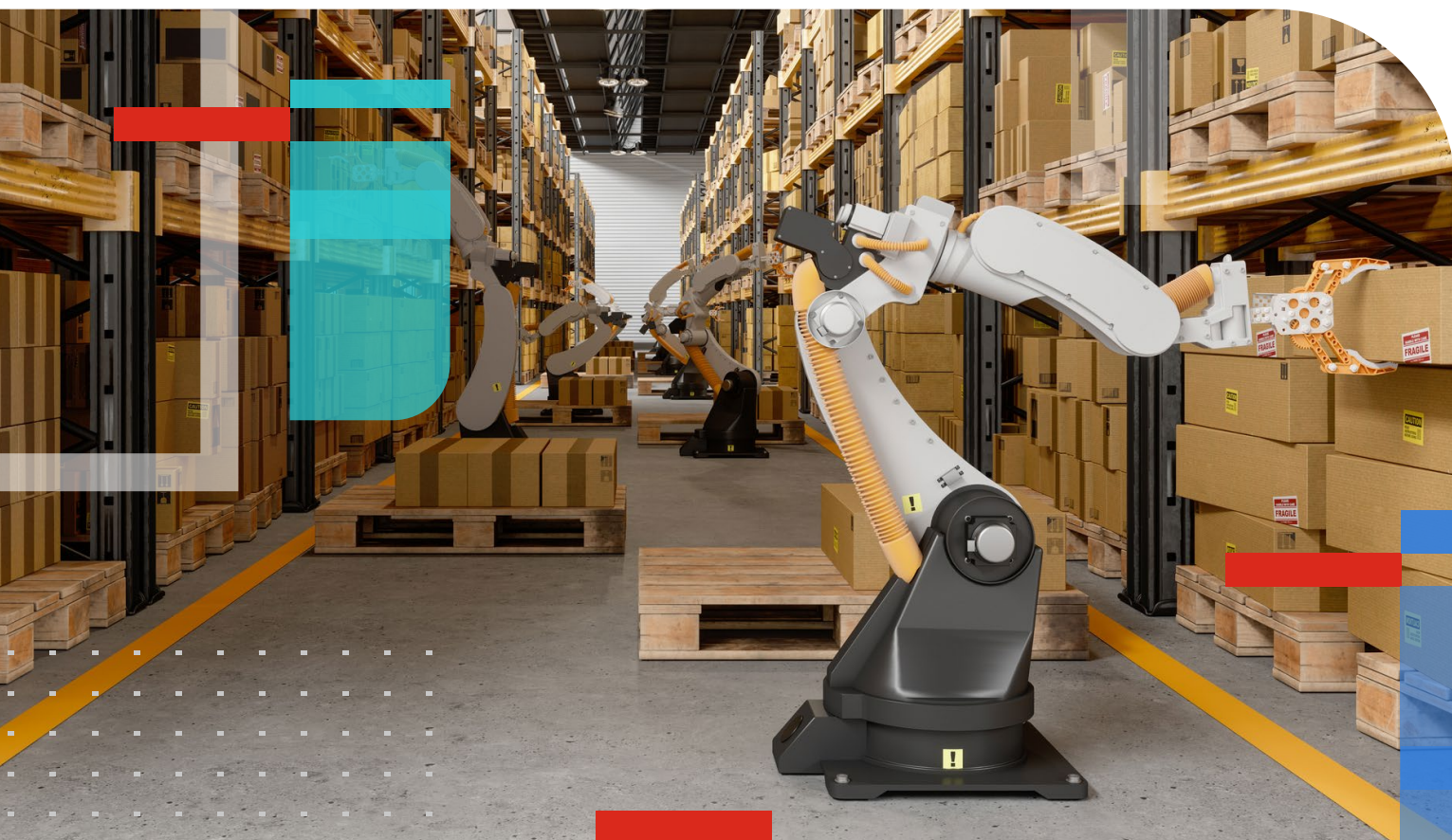


EDUCATION PATHWAY

Operational Technology



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 Operational Technology and the potential job opportunities that exist related to this environment.

Operational Technology

The integration of operational technology (OT) and information technology (IT) has a significant impact on industrial cybersecurity. Specifically, industrial control systems (ICS) and supervisory control and data acquisition (SCADA) systems that have historically been air gapped are now being connected to IT systems—and therefore to the internet. As the air gap is removed, these systems are exposed to an increasingly advanced threat landscape and are targets for hackers involved in terrorism, cyber warfare, and espionage.

Since 2005, Fortinet has protected OT environments in critical infrastructure sectors such as energy, defense, manufacturing, food, and transportation. By designing cybersecurity into complex infrastructure via the Fortinet Security Fabric, organizations can integrate cybersecurity protection across OT and IT environments, from the plant floor to the data center to multiple clouds.

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 Operational Technology education pathway align to the following NICE Framework Work Roles.

	Introduction to the Threat Landscape	Technical Introduction to Cybersecurity	FortiGate Operator	FortiGate Administrator	FortiAnalyzer Analyst	FortiSIEM	FortiSOAR Administrator	FortiEDR	OT Security
Cyber Defense Analyst PR-CDA-001	✓	✓	✓	✓	✓	✓		✓	
Cyber Defense Incident Responder PR-CIR-001	✓	✓	✓	✓	✓	✓		✓	✓
Cyber Defense Infrastructure Support Specialist PR-INF-001	✓	✓	✓	✓		✓	✓	✓	
Enterprise Architect SP-ARC-001	✓	✓	✓	✓					✓
Security Architect SP-ARC-002	✓	✓	✓	✓					✓
System Administrator OM-ADM-001	✓	✓	✓	✓		✓	✓	✓	
Technical Support Specialist OM-STS-001	✓	✓	✓	✓	✓	✓	✓	✓	✓
Threat/ Warning Analyst AN-TWA-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 Security Operations [Learn More](#)

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

You must pass two elective exams.

ELECTIVE EXAMS

FortiGate Administrator

FortiAnalyzer Analyst

FortiSIEM

FortiSOAR Administrator

FortiEDR

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.

FortiAnalyzer Analyst SKU: FT-FAZ-ANS [Learn More](#)

In this course, candidates will learn the fundamentals of using FortiAnalyzer for centralized logging. This includes learning how to identify current and potential threats through log analysis, and examine the management of events, incidents, reports, and task automation with playbooks.

FortiSIEM SKU: FT-FSM [Learn More](#)

In this course, candidates will learn how to use FortiSIEM, and how to integrate FortiSIEM into your network awareness infrastructure.

FortiSOAR Administrator SKU: FT-FSR-ADM [Learn More](#)

In this course, candidates will learn about FortiSOAR architecture, and how to deploy, configure, manage, operate, and monitor FortiSOAR in a SOC environment.

FortiEDR SKU: FT-EDR [Learn More](#)

In this course, candidates will learn how to use FortiEDR to protect their endpoints against advanced attacks, with real-time orchestrated incident response functionality.

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

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

You must pass the core exam.

CORE EXAM**OT Security****RECOMMENDED TRAINING****OT Security** SKU: FT-OTS [Learn More](#)

In this course, candidates will learn how to secure their OT infrastructure using Fortinet solutions. Candidates will learn how to design, deploy, administrate, and monitor FortiGate, FortiNAC, FortiAnalyzer, and FortiSIEM devices to secure OT infrastructures.

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



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