

CERTIFIED NETWORK DEFENDER



TRAIN FOR NEXT GENERATION NETWORK SECURITY







Respond



CND: THE CREDENTIAL THAT SETS THE GLOBAL BENCHMARK FOR NETWORK SECURITY SKILLS AND BUILDS CAREERS IN NETWORK SECURITY & BLUE TEAM

Network security skills are in high demand among organizations as well as cybersecurity aspirants.

1. HIGHLY SOUGHT AFTER BY ORGANIZATIONS:

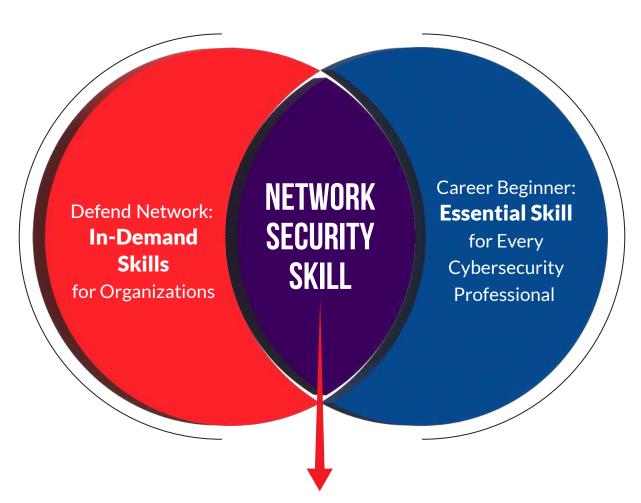
The increasing frequency and sophistication of cyberattacks have contributed to a growing demand for network security professionals. Network security is a critical aspect of cybersecurity, as protecting data integrity, confidentiality, and availability within networks is a top priority for organizations.

2. ESSENTIAL FUNDAMENTAL SKILL:

Mastering network security is an essential fundamental skill for aspiring cybersecurity professionals as it entails fortifying firewalls, implementing robust encryption protocols, and configuring intrusion detection systems-foundational elements vital to securing the intricate web of interconnected systems against sophisticated cyber threats, ensuring data integrity, confidentiality, and seamless network operations.







CERTIFIED NETWORK DEFENDER

World's Most Comprehensive & Practical Network Security Training Program

Network Security is one of the Top In-Demand Cybersecurity Skills.

(TechTarget, LinkedIn, Shiksha, Harvard blog, EC-Council)







Additionally, they will dive into threats, analyzing the attack surface, and studying threat prediction and threat intelligence as it relates to their administration and defense responsibilities.

Often referred to as blue-teaming, C NDs will be able to apply defense and countermeasure strategies in their organizations, playing a critical role not only in attack prevention but also in detection, response, and remediation as they configure networks and systems to operate securely. The C ND program will cover the concepts and fortify skills through hands-on practice across over 100+ labs delivered on live target machines.

The C ND program designed by industry experts prepares network defenders with strategic, technological, and operational network security capabilities, enabling them to design, develop, and maintain secure networks.





C ND IS THE WORLD'S FIRST

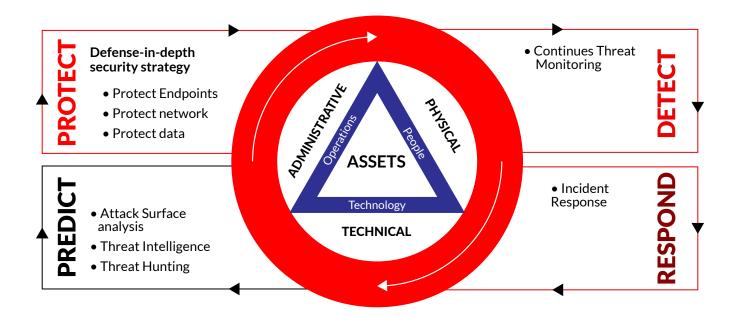
NETWORK SECURITY PROGRAM

WITH A CONTINUAL/ADAPTIVE SECURITY STRATEGY:

1. Protect 2. Detect 3. Respond 4. Predict

According to Gartner, 'traditional "prevent and detect" approaches are inadequate.'

Opportunistic by nature, malicious actors look for the easiest ways to attack most users and siphon off maximum gains. Developing a continuous Adaptive Security Cycle helps organizations stay ahead of cybercriminals by creating and improving security systems. And that's what you learn in the C ND program.







CND Course Modules:

1.	Network Attacks and Defense Strategies	01
2.	Administrative Network Security	02
3.	Technical Network Security	04
4.	Network Perimeter Security	05
5.	Endpoint Security - Windows Systems	06
5 .	Endpoint Security - Linux Systems	07
7.	Endpoint Security - Mobile Devices	08
3.	Endpoint Security - IoT Devices	09
9.	Administrative Application Security	10
10.	Data Security	11
11.	Enterprise Virtual Network Security	12
12.	Enterprise Cloud Network Security	13
13.	Enterprise Wireless Network Security	14
14.	Network Traffic Monitoring and Analysis	15
15.	Network Logs Monitoring and Analysis	16
16.	Incident Response and Forensic Investigation	17
17.	Business Continuity and Disaster Recovery	18
18.	Risk Anticipation with Risk Management	19
19.	Threat Assessment with Attack Surface Analysis	20
20.	Threat Prediction with Cyber Threat Intelligence	21

APPENDIX (Self-Study)

APPENDIX A: Computer Network Fundamentals

APPENDIX B: Physical Network Security

APPENDIX C: Virtual Private Network (VPN) Security

APPENDIX D: Endpoint Security - MAC Systems



- Planning and administering network security for organizations
- 2. Recognizing security risks, threats, and vulnerabilities
- 3. Ensuring compliance with regulatory standards
- 4. Designing and implementing network security policies
- 5. Applying security principles in distributed and mobile computing environment
- 6. Implementing Identity and Access Management, encryption, and network segmentation
- 7. Managing Windows and Linux Security Administration
- 8. Addressing security risks in mobile devices and IoT
- 9. Implementing strong data security techniques
- 10. Managing security in virtualization technologies and cloud platforms
- 11. Implementing wireless network security
- 12. Conducting risk and vulnerability assessments
- 13. Providing first response to security incidents
- 14. Identifying Indicators of Compromise and Attack
- 15. Integrating threat intelligence for proactive defense
- 16. Conducting Attack Surface Analysis
- 17. Assisting in Business Continuity and Disaster Recovery planning
- Monitoring network traffic and performing log management

- 19. Managing proxy, content filtering, and troubleshooting network issues
- 20. Hardening security of endpoints and selecting firewall solutions
- 21. Configuring IDS/IPS for enhanced security
- 22. Maintaining an inventory of network devices
- 23. Providing security awareness guidance and training
- 24. Managing AAA for network devices
- 25. Reviewing audit logs and analyzing security anomalies
- 26. Maintaining and configuring security platforms
- 27. Evaluating security products and operations procedures
- 28. Identifying and classifying organizational assets
- 29. Implementing system integrity monitoring tools
- 30. Understanding EDR/XDR and UEBA solutions
- 31. Conducting PIA processes for privacy assessment
- 32. Collaborating on threat hunting and incident response
- 33. Understanding SOAR platforms in cybersecurity operations
- 34. Integrating Zero Trust principles into security architectures
- 35. Staying updated on emerging cyber threats
- 36. Understanding the role of AI/ML in cyber defense.

4 KEY FEATURES

AND CRITICAL COMPONENTS OF THE CND PROGRAM

- The World's First Network Security Program with a Continual/Adaptive Security Strategy:
 - 1. Protect 2. Detect 3. Respond 4. Predict
- **2** Covers Defense-In-Depth Security Strategy:
 - 1. Policies, Procedures, and Awareness 2. Physical 3. Perimeter
 - 4. Internal Network 5. Host 6. Application 7. Data
- **3** Covers Four Security Approaches:
 - 1. Preventive Approach 2. Reactive Approach
 - 3. Retrospective Approach 4. Proactive Approach
- Covers All Five Functions of the NIST Cybersecurity Framework (CSF):
 - 1. Identify 2. Protect 3. Detect 4. Respond 5. Recover





BUILD YOUR NETWORK SECURITY CAREER WITH C ND

Advantages of the C|ND Program

- Accredited by the ANSI National Accreditation Board under ANSI ISO/IEC 17024
- Recognized by the National Cyber Security Centre NCSC part of GCHQ (UK's intelligence, security, and cyber agency) approves EC-Council Training as meeting CYBOK requirements.
- 100+ hands-on labs: More labs than any globally recognized network security certification.
- 6 Lab-intensive program (More than 50% lab)
- Covers modern and advanced network security requirements
- Mapped with NICE Framework under the following category, specialty areas, and work roles
- Your pathway to a career in the blue team
- Master mobile & IoT security defense
- Learn tactical defense of cloud services (AWS, Azure, and GCP)
- Learning beyond technical aspects
- Building perimeter defense skills
- Build job-ready practical skills in live ranges
- Learn the latest technologies and concepts to match modern network security requirements.
- Build hands-on skills with 100+ labs simulating real-time environment
- 6 Learn in-depth attack surface analysis
- Mapped with real-time job roles and responsibilities of network defenders
- Designed and developed by SMEs across the globe







C ND COVERS MODERN AND ADVANCED NETWORK

SECURITY REQUIREMENTS:

- Enterprise Mobile Device Security
- Enterprise IoT Device Security
- Cloud Security
- Virtual Network Security
- SDN Security
- NFV Security
- Docker Security
- Container Security

- Kubernetes Security
- Threat Intelligence
- Threat Hunting
- Endpoint Detection and Response (EDR)
- Extended detection and response (XDR)
- User and Entity Behavior Analytics (UEBA)
- Security Orchestration, Automation, and Response (SOAR)

TRAINING AND EXAM DETAILS

Training Details:



iLearn (Self-Study)

This solution is an asynchronous, self-study environment in a video streaming format.



iWeek (Live Online)

This solution is a live, online, instructor-led training course.



🙎 Training Partner (In Person)

This solution offers "in-person" training so what you can benefit from collaborating with your peers and gaining real-world led by expert, certified instructors.

Exam Details:

Exam Code:

312-38

Duration:

4 hours

Availability:

EC-Council Exam Portal **Test Format:**

Multiple Choice









Network Administrators



Network Security Administrators



Network Engineer



Security Operator



Data Security Analyst



Network Security Engineer



Network Defense Technician



Security Analyst



Cybersecurity Engineer



Network Security

Who Can Apply?

Students/IT Professionals/Any other industry professionals planning a career in cybersecurity. Anyone who wants to start a career in the blue team and network security.

Salaries

The average salary for a network security engineer in the

United States is \$125,014.

Source: Glassdoor





RECOGNITION/ENDORSEMENT/ MAPPING





United States
Department
of Defense
(DoD)

Why Do Top Network Security Professionals Across the Globe Love the C ND Program?



Robinson Shai
South Africa
Cybersecurity
Professional

Other programs emphasize the understanding of networks, but C ND shows the weaknesses in a network and how to cover them to protect the networks. C ND is the single most certification that pays so much attention to security. To enter cybersecurity, you should go for a certification that gives you an understanding of a network and teaches you how to secure it. There is no way to defend a network without knowing how it works. C ND teaches you about a network and how you can incorporate security within a network. C ND covers a wide range of topics, including securing data storage, protecting machines, configuring network sites, and even delves into physical security measures such as cameras and access control systems.







Samuel Boateng
USA
President and CEO of
Slamm Technologies

It has also helped me achieve a lot and higher certifications in the field because it laid a great foundation for my life and career. One of the good things about $C \mid ND$, is that you can never compare it with any program. $C \mid ND$, comes with this unique approach to networking, and the way it puts security together makes it easy to understand. In $C \mid ND$, you learn the seven layers of the OSI model, understand the basic concept of putting things together, and understand your network is the key area. $C \mid ND$, teaches you to monitor the log analysis side, which shows how logs can be analyzed and investigated. And that is my favorite part. $C \mid ND$, provides knowledge on securing your systems, the infrastructure, and every part of your Internet of Things. It shows you everything that you need to know about security.

C ND has upgraded my knowledge in a way that I was able to use that knowledge in the operational and strategical environment and apply that knowledge to increase the security of the company networks. There are plenty of security vendors and training programs in the market. But, they cannot compare it to C ND. C ND is the most complete program that covers all necessary topics regarding network security.

The first thing I like about the C ND program is that it covers major cybersecurity approaches like preventive, reactive retrospective, and proactive security. This will help plan, establish, and maintain the security in the network as well as properly react in the case of an incident.



Ivica Gjorgjevski
USA
Information Security Officer
Stopanska Banka
Macedonia







ORGANIZATIONS THAT EMPLOY C ND CERTIFIED MEMBERS































About EC-Council

EC-Council invented the Certified Ethical Hacker. Founded in 2001 in response to 9/11, EC-Council's mission is to provide the training and certifications apprentice and experienced cyber security professionals need to keep corporations, government agencies, and others who employ them safe from attack.

Best known for its Certified Ethical Hacker program, EC-Council today offers 200 different training programs, certifications, and degrees in everything from Computer Forensic Investigation and Security Analysis to Threat Intelligence and Information Security. An ISO/IEC 17024 Accredited Organization recognized under the US Defense Department Directive 8140/8570 and many other authoritative cybersecurity bodies worldwide, the company has certified over 350,000 professionals across the globe. Trusted by seven of the Fortune 10, half of the Fortune 100, and the various agencies public and private across 140 nations, EC-Council is the gold standard in cybersecurity education and certification.

A truly global organization with a driving belief in bringing diversity, equity, and inclusion to the modern cybersecurity workforce, EC-Council maintains 11 offices in the U.S., the UK, India, Malaysia, Singapore, and Indonesia.

www.eccouncil.org