

## EC-Council Certified Network Defender (CND)

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### Course Summary

#### Description

Organizational focus on cyber defense is more important than ever as cyber breaches have a far greater financial impact and can cause broad reputational damage.

Despite best efforts to prevent breaches, many organizations are still being compromised. Therefore, organizations must have, as part of their defense mechanisms, trained network engineers who are focused on protecting, detecting, and responding to the threats on their networks.

Network administrators spend a lot of time with network environments, and are familiar with network components, traffic, performance and utilization, network topology, location of each system, security policy, etc.

So, organizations can be much better in defending themselves from vicious attacks if the IT and network administrators are equipped with adequate network security skills. Thus, Network administrator can play a significant role in network defense and become first line of defense for any organizations.

There is no proper tactical network security training that is made available for network administrators which provides them core network security skills.

Students enrolled in the Certified Network Defender course, will gain a detailed understanding and hands-on ability to function in real life situations involving network defense. They will gain the technical depth required to actively design a secure network in your organization. This program will be akin to learning math instead of just using a calculator. This course gives you the fundamental understanding of the true construct of data transfer, network technologies, software technologies so that you understand how networks operate, understand what software is automating and how to analyze the subject material.

You will learn how to protect, detect and respond to the network attacks. You will learn network defense fundamentals, the application of network security controls, protocols, perimeter appliances, secure IDS, VPN and firewall configuration. You will then learn the intricacies of network traffic signature, analysis and vulnerability scanning which will help you when you design greater network security policies and successful incident response plans. These skills will help you foster resiliency and continuity of operations during attacks.

This is the world's most advanced Certified Network Defense course with 14 of the most current network security domains any individuals will ever want to know when they are planning to protect, detect, and respond to the network attacks.

Certified Network Defender (CND) is a vendor-neutral, hands-on, instructor-led comprehensive network security certification training program. It is a skills-based, lab intensive program based on a job-task analysis and cybersecurity education framework presented by the National Initiative of Cybersecurity Education (NICE). The course has also been mapped to global job roles and responsibilities and the Department of Defense (DoD) job roles for system/network administrators. The course is designed and developed after extensive market research and surveys.

The program prepares network administrators on network security technologies and operations to attain Defense-in-Depth network security preparedness. It covers the protect, detect and respond approach to network security. The course contains hands-on labs, based on major network security tools and techniques which will provide network administrators real world expertise on current network security

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### Course Summary (cont.)

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technologies and operations. The study-kit provides you with over 10 GB of network security best practices, assessments, and protection tools. The kit also contains templates for various network policies and a large number of white papers for additional learning.

#### Topics

- Computer Network and Defense Fundamentals.
- Network Security Threats, Vulnerabilities, and Attacks.
- Network Security Controls, Protocols, and Devices.
- Network Security Policy Design and Implementation.
- Physical Security.
- Host Security.
- Secure Firewall Configuration and Management.
- Secure IDS Configuration and Management.
- Secure VPN Configuration and Management.
- Wireless Network Defense.
- Network Traffic Monitoring and Analysis.
- Network Risk and Vulnerability Management.
- Data Backup and Recovery.
- Network Incident Response and Management

#### Audience

This course is designed for:

- Network Administrators
- Network security Administrators
- Network Security Engineer
- Network Defense Technicians
- CND Analyst
- Security Analyst
- Security Operator
- Anyone involved in network operations

#### Duration

Five Days