CND - Certified Network Defender

COURSE OVERVIEW:

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 class material and training exercises prepare you on network security technologies and operations to attain Defense-in-Depth network security preparedness. It also covers the protect, detect, and respond approach to network security tools and techniques which will provide network administrators real-world expertise on current network security technologies and operations. Additionally, the study-kit provides you with numerous network security best practices, assessments and protection tools.

WHO WILL BENEFIT FROM THIS COURSE?

The intended audience for our CND training program is an IT professional who is focused on network operations, specifically those who work with network security technologies and operations. CND is generally a great fit for those working in roles such as, but not limited to:

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

COURSE OBJECTIVES:

After completing this course, the student should be able to:

- Understand about various network security controls, protocols, and devices
- Troubleshoot their network for various network problems
- Identify various threats on the organization network
- Design and implement various security policies for their organizations
- Understand the importance of physical security and be able to determine and implement various physical security policies for their organizations
- Harden security of various hosts individually in the organization's network
- Choose appropriate firewall solution, topology, and configurations to harden security through firewall
- Determine an appropriate location for IDS/IPS sensors, tuning IDS for false positives and false negatives, and configurations to harden security through IDPS technologies

- Implement secure VPN implementation for their organization
- Identify various threats to a wireless network and learn how to mitigate them
- Monitor and conduct signature analysis to detect various types of attacks and policy violation activities
- Perform risk assessment, vulnerability assessment/scanning through various scanning tools and generate detailed reports on it
- Identify the critical data, choose appropriate backup method, media, and technique to perform a successful backup of organization data on a regular basis
- Provide a first response to the network security incident and assist the IRT team and forensics investigation team in dealing with an incident

COURSE OUTLINE:
- Module 1: Computer Network and Defense Fundamentals Response & Handling
- Module 2: Network Security Threats, Vulnerabilities, and Attacks
- Module 3: Network Security Controls, Protocols, and Devices
- Module 4: Network Security Policy Design and Implementation
- Module 5: Physical Security
- Module 6: Host Security
- Module 7: Secure Firewall Configuration and Management
- Module 8: Secure IDS Configuration and Management
- Module 9: Secure VPN Configuration and Management
- Module 10: Wireless Network Defense
- Module 11: Network Traffic Monitoring and Analysis
- Module 12: Network Risk and Vulnerability Management
- Module 13: Data Backup and Recovery
- Module 14: Network Incident Response and Management

SUNSET LEARNING INSTITUTE (SLI) DIFFERENTIATORS:

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their cloud technology investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team
- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience.
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

- You have the option to attend classes at any of our established training facilities or from the convenience of your home or office with the use of our HD-ILT network (High Definition Instructor Led Training)
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

Outstanding Customer Service

- Dedicated account manager to suggest the optimal learning path for you and your team
- Enthusiastic Student Services team available to answer any questions and ensure a quality training experience