



## Network Defense Essentials



### I. Program overview & Benefit:

The Network Defense Essentials (NDE) course is a comprehensive introduction to the fundamental concepts of information security and network defense. This course is tailored for individuals looking to embark on a career in cybersecurity, providing an essential foundation for entry-level information security or cybersecurity roles. It encompasses a wide array of topics including Identification, Authentication, Authorization, Virtualization, Cloud Computing, Wireless Networks, Mobile and IoT Devices, and Data Security. A significant component of the course is its interactive labs, which offer hands-on, practical experience necessary for a successful future in the cybersecurity field. By earning the NDE certification, individuals gain formal recognition of their competency and expertise in network defense and information security skills, enhancing their resume and employability.

### II. Intended Participants:

This course is designed for individuals aspiring to start a career in cybersecurity. It is ideal for those with a basic understanding of IT networking and cybersecurity concepts.

- Local Area Network Specialist
- Network Security Analysts
- Network Technician
- Network Administrator
- Network Coordinator

### III. Program Curriculum

The curriculum of the Network Defense Essentials course is meticulously structured to cover the breadth and depth of information security and network defense. It is divided into twelve modules, each focusing on a key aspect of cybersecurity:

- Network Security Fundamentals
- Identification, Authentication, and Authorization
- Network Security Controls: Administrative Controls
- Network Security Controls: Physical Controls
- Network Security Controls: Technical Controls
- Virtualization and Cloud Computing
- Wireless Network Security
- Mobile Device Security
- IoT Device Security
- Cryptography and the Public Key Infrastructure
- Data Security
- Network Traffic Monitoring

This detailed curriculum is designed to provide participants with a robust understanding of network defense principles, strategies, and practical applications, equipping them with the skills needed to protect, detect, respond to, and predict cybersecurity threats effectively.

## IV. Schedule:

The certificate program entails a commitment of 12 hours, with sessions lasting 4 hours each week. Candidates have the flexibility to select their preferred schedule from the following options:



### Evening classes

From 6:30 PM to 8:30 PM

Monday and Tuesday or Thursday and Friday



### Weekend classes

From 10:00 AM to 12:00 PM:

Saturday and Sunday

## V. Enrollment requirements:

**Enrollment requirements are straightforward:** there are no specific prerequisites. However, participants are expected to have a basic understanding of networking, operating systems, and coding principles.

## VI. The Benefits of the program:

- **Holistic Understanding:** Gain a comprehensive overview of key information security components and network defense strategies.
- **Practical Experience:** Benefit from interactive labs that provide the hands-on experience required for a career in cybersecurity.
- **Career Advancement:** The NDE certification serves as formal recognition of your expertise, enhancing your resume and employment prospects.
- **Foundational Knowledge:** Establish a solid foundation in cybersecurity, preparing you for more advanced studies and certifications in the field.

These benefits make the program a must-have for individuals and organizations aiming to equip themselves with the best possible defense against network breaches, emphasizing practical skills and up-to-date knowledge in network security.

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