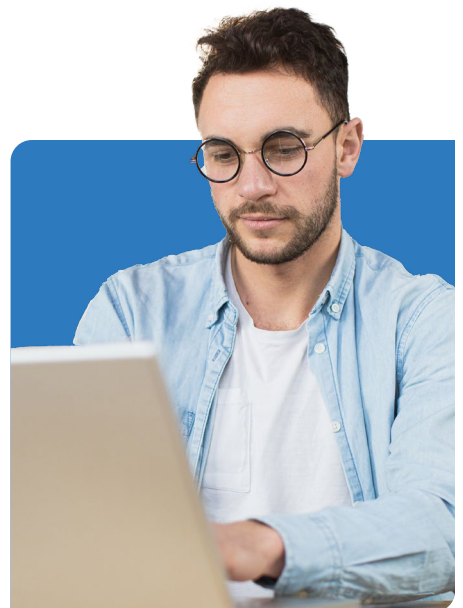


ThriveDX™

Cybersecurity Essentials Course

TDXCS-9



ThriveDX Cybersecurity Essentials Course

Time Commitment

5 days (total of 40 hours / 8 hours per day)

Skill Level

Basic Level: Cybersecurity Essentials

Course Category

Cyber Defense

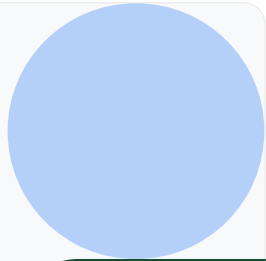
This course is a comprehensive training program designed to equip participants with a broad and thorough understanding of various aspects of cybersecurity. Targeted towards IT professionals, network and system administrators, and aspiring cybersecurity experts, the course covers a wide range of topics essential for anyone looking to enhance their knowledge and skills in this rapidly evolving field.

Who Should Attend:

- IT professionals looking to enhance their knowledge in cybersecurity.
- Network and system administrators who want to improve their security skills.
- Security practitioners seeking a comprehensive understanding of various cybersecurity aspects.
- Aspiring cybersecurity professionals aiming for a foundational certification.

Prerequisites:

- Basic understanding of computer networks, including familiarity with TCP/IP protocols.
- Knowledge of operating systems, especially Linux and Windows.
- Experience in network administration, system administration, or IT support roles is beneficial.
- An understanding of fundamental security concepts and practices.



Relevant for the Following Work Roles:

- Cybersecurity Analysts
- Incident Responders and Handlers
- IT Security Administrators
- Network Security Engineers
- Security Operations Center (SOC) personnel
- Information Security Officers
- Compliance and Risk Management Officers

Upon Completion, Participants will Emerge with:

1

Enhanced Cybersecurity Skills:

Participants will gain hands-on skills in key areas of cybersecurity, improving their ability to defend against threats.

2

Operational Improvement:

Practical knowledge from the course can be directly applied to improve the security posture of organizations.

3

Compliance and Risk Management:

Understanding of various security frameworks and compliance standards.

4

Talent Development:

Investing in this training supports professional growth and skill development, aiding in talent retention.



5

Competitive Advantage:

Organizations with well-trained cybersecurity personnel are better equipped to handle emerging threats and challenges.

6

Proactive Security Posture:

Participants will learn to adopt a proactive approach to cybersecurity, anticipating and mitigating potential threats.

Program Structure

Module 1

Core Cybersecurity Concepts

- ✓ Cybersecurity Fundamentals
- ✓ Defense Strategies
- ✓ Information Security Principles

Module 2

Network Security

- ✓ Network Architecture and Secure Design
- ✓ Network Protocols
- ✓ Zero Trust Architecture
- ✓ Firewall and Intrusion Detection Systems

Module 3

Operating Systems Security

- ✓ Linux Security and Hardening
- ✓ Windows Security, Access Controls, and Group Policies
- ✓ System Monitoring and Vulnerability Management

Module 4

Cloud Computing and Virtualization

- ✓ AWS Security Essentials
- ✓ IAM and Security Groups
- ✓ Monitoring & Securing Cloud Services

Module 5

Endpoint and Mobile Security

- ✓ Data Loss Prevention
- ✓ Mobile Device Security and Management
- ✓ Endpoint Protection Technologies

Module 6

Applied Cryptography

- ✓ Cryptographic Algorithms and Key Management
- ✓ VPNs and PKI
- ✓ Cryptography in Data Protection

Module 7

Incident Response and Handling

- ✓ Incident Detection and Analysis
- ✓ Incident Response Planning
- ✓ Post-Incident Activities and Forensics
- ✓ SIEM Tools Application

Module 8

Vulnerability and Penetration Testing

- ✓ Ethical Hacking Basics
- ✓ Vulnerability Scanning Techniques
- ✓ Penetration Testing Tools and Methodologies

Module 9

Security Frameworks and Standards

- ✓ CIS Critical Controls
- ✓ NIST Cybersecurity Framework
- ✓ MITRE ATT&CK Framework

Module 10

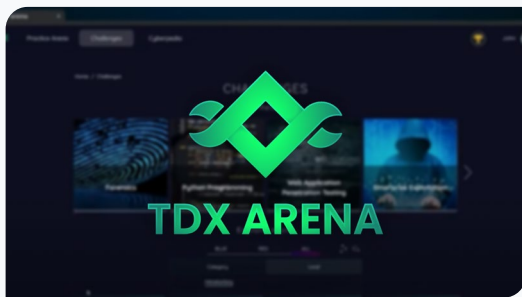
Web and Wireless Network Security

- ✓ Web Application Security Principles
- ✓ Securing Wireless Networks
- ✓ Emerging Threats and Security Practices

TDX

Certification Readiness

All participants completing the course will receive a **ThriveDX Course Completion Certification**. Participating completing the final accreditation exam will receive a **ThriveDX Cyber Practitioner Certification**. This course also aligns with the requirements of the **GSEC certification**.



Embedded Labs and Challenges

The course includes our state of the art proprietary cloud-based digital education platform, **Arena**, in which real-life scenarios and advanced tech teaching meet in a gamified environment.

