



Training

Certified Cyber Defender Associate



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Certified Cyber Defender Associate Training

Just as every military and police force needs a firing range to hone weapons skills and battle tactics, every Next-Gen Cyber Defender needs access to a Cyber Range.

Only with an Internet-scale, operationally-relevant, and ever-current Cyber Range organizations can produce the empirically valid cyber war-gaming scenarios necessary to develop IT staff skills and instincts for defensive action.

Similarly, the only way to understand the resiliency of IT infrastructures is to assault every element within them using the high-stress, real-world conditions created in the controlled environment of a Cyber Range.

Our cyber security training program, Certified Cyber Defender Associate (CCDA) helps security teams build the skills necessary to defend their network against new age cyber-attacks.

This program is certified by International Islamic University Malaysia (IIUM) the world's premier Islamic University, and endorsed by CyberSecurity Malaysia, Malaysia's national cyber security agency, under the Ministry of Science, Technology and Innovation (MOSTI).

Participants of this program will develop a deep understanding and advanced skills to defend your organization and formulate defense strategies against sophisticated cyber attacks.

This training program require participants to formulate defense responses using next-generation firewalls, intrusion prevention systems, URL filters, anti-spyware systems, anti-virus systems, anti-DDOS systems, data filters and file blocking systems and advanced application based protection systems.

Participants will also be required to correlate information from the sources mentioned and collaborate with other team members to further develop a comprehensive cyber defense strategy.

With our cyber range program, your cyber security personnel can build the capabilities and competencies necessary to secure your organization and critical assets.

Pre-requisite

Basic understanding on enterprise networks.

Who Should Attend?

This programme is meant for anyone who is looking to up skill their level of security operations proficiency, multi-skill themselves in cyber security or to take on cyber-security related job roles, which can include, but not limited to:

Cyber Security Professionals

System/Network Administrators

Information security officers / ISMS manager

ICTSOs / CIOs / CISOs / CSOs / CTOs

Security auditors, and governance and compliance officers

Course Outline:

Module 1: Overview

Current Threat Landscape
Modern Day Threats

Module 2: Cyber Defense Strategy

CIS Critical Security Controls
Cyber Range Malaysia

Module 3: Information Assurance

Confidentiality, Availability & Integrity
Information Security Management Framework

Module 4: Information Warfare

Blue Team & Red Team
Hacking Phase 1 – Reconnaissance
Hacking Phase 2 – Scanning
Hacking Phase 3 – Gaining Access
Hacking Phase 4 – Maintaining Access
Hacking Phase 5 – Clearing Tracks

Module 5: Vulnerability Administration Management

Vulnerability Management Life Cycle
Vulnerability Management Lab

Module 6: Monitoring and Defending Against DoS Attacks

Splunk
DDOS
Botnet
Command and Control

Module 7: Advanced Defensive Security Operations

Application Blocking
Malware Blocking
Anti-Spyware Blocking
Vulnerability Protection
File Blocking
Data Leak Prevention
URL Filtering

Module 8: Incident Response & Management

Incident Response
Security Incident
Incident Response Process
RACI Matrix
Incident Priority Matrix
Call Tree
RCA Tools
Incident Response Tools

Module 9: Live Fire Lab

Live Fire Lab

5 Key Benefits Of Getting CCDA Certified

- ★ Gain advanced skills to build defense strategies against cyber-attacks
- ★ Learn to formulate defense responses using existing cyber security technology
- ★ Develop the ability to correlate cyber security related information from multiple sources
- ★ Boost earning capability
- ★ Improve credibility in terms of Information Security qualifications and experience

About Us



Cyber Range Lab Malaysia

A cyber security facility with state-of-the-art technologies, which can **simulate and emulate the entire network and systems of an enterprise**, and at the same time introduce simulated real-life cyber attacks.



Cyber Range Malaysia is a collaboration between International Islamic University Malaysia the world's premier Islamic University, CyberSecurity Malaysia, Malaysia's national cyber security agency and Cyber Intelligence Sdn Bhd, Malaysia's premier cyber security company.



Organizations can train their security professionals in empirically valid cyber war-gaming scenarios necessary to develop IT staff skills and instincts for defensive action.

Training will be delivered by Malaysia's highly skilled and experienced Cyber Range Specialists.

Cyber Range Malaysia



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Certified by

Endorsed by

Operated By



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يُؤَسِّسُهَا اللهُ تَعَالَى فِي مَلَيْشِيَا

CyberSecurity
MALAYSIA



Eliminating
Information Security
Blind Spots