



Training

# Certified Cyber Defender Associate



[contactus@cyberintelligence.my](mailto:contactus@cyberintelligence.my)



+603 - 8322 4622

# 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



CSM-IIUM Center of Excellence,  
Block E, 4th Floor, TLE4-04,  
Kulliyyah of ICT,  
International Islamic University  
53100  
Selangor, Malaysia

Certified by

Endorsed by

Operated By



الجامعة الإسلامية العالمية ماليزيا  
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
يونسيفي اسلامي انبازا انجسا ملديسيا

|| CyberSecurity ||  
MALAYSIA

 **CYBER**  
INTELLIGENCE