



The Institute of  
**Internal Auditors**  
Malaysia

IIAM  
**GLOBAL**  
SERIES

**2024**

# FUNDAMENTALS OF CYBERSECURITY AUDITING

*(DEVELOPED BY GLOBAL IIA)*

## PROGRAM OVERVIEW

According to The IIA's OnRisk 2022 Report, cybersecurity continues to be the top risk faced by organizations. The report states, "The growing sophistication and variety of cyberattacks continue to wreak havoc on organizations' brands and reputations, often resulting in disastrous financial impacts." With innovations, including automation, cloud, and mobile computing, not to mention customer preferences moving toward self-service from any device throughout the world, having a basic understanding of cybersecurity is crucial for today's operational auditor. Internal auditors are expected to be cyber savvy and able to assess whether organizations are sufficiently prepared to manage cyber threats that could cause disruption and reputational harm.

### Are you up to the challenge?

This introductory course provides a comprehensive overview of key cybersecurity concepts that can be used to facilitate audit efforts within your organization. It examines directive, preventive, detective, corrective, and mitigating controls, and how to apply each within the audit process. Finally, commonly accepted frameworks, standards, and guidelines are presented to prepare you to assess cybersecurity during operational audits.

### Who will benefit from this course?

This course intends to provide a comprehensive overview of key cybersecurity concepts, along with practical applications, that can be used to facilitate audit efforts within your organization. This course is designed for internal auditors who are looking for a fundamental understanding of cybersecurity and common exploits. It is recommended for internal auditors that are involved in operational audit activities and need to know how to assess the strength of controls that influence the impact of cybersecurity events on organizational risks.





## COURSE OBJECTIVES

- Define cybersecurity from an internal audit perspective.
- Describe the scope, purpose, and limitations of cybersecurity.
- Recognize how to measure effectiveness within the cybersecurity program.
- Express the importance of information security governance with the cybersecurity program.
- Examine the importance of cybersecurity and vendor risk assessments.
- Explore basic auditing considerations for cybersecurity-related compliance.
- Recognize typical cybersecurity-related preventive, directive, detective, mitigating, redundant, compensating, and corrective controls.
- Identify simple audit activities to assess cyber resiliency within existing operational audit programs.

## COURSE TOPICS

### Overview of Cybersecurity

- What is cybersecurity?
- Anatomy of a breach.
- Threat types.
- Risk categories.
- Controls by function.
- Defense in depth, layered security, and the OSI Model.

### Information Security Governance, Risk, and Control

- Cybersecurity governance.
- Cybersecurity risk management.
- Cybersecurity maturity models.
- Cybersecurity controls.
- Cybersecurity program development.
- Assurance: Governance, risk management, and control.
- Auditing cybersecurity.

### Control Primer

- Internal control.
- Control design and maintenance.
- Types of controls.
- Control levels.
- Control classifications.
- Controls by function.
- Asset and control inventory.
- Auditing controls.

### Directive Controls

- Directive controls.
- Threats to directive controls.
- Cybersecurity frameworks, standards, and guidelines.
- Cybersecurity training.
- Incentive programs.
- Incentive programs: Overall controls.



### Preventive Controls

- Preventive controls.
- Anatomy of a breach.
- Monitoring and alerting.

### Detective Controls

- Purpose of detective controls.
- The cybersecurity triad.
- Detecting cyber incidents.
- Detecting cyber incidents: Actions.
- Containing cyber incidents.
- Identifying data exposure.
- The breach.
- Audit logs.
- Considerations for detective controls.
- Security incident event monitoring.
- Data classification and detective controls.

### Corrective Controls

- Purpose of corrective controls.
- Backup and restoration.
- Business continuity.
- Disaster recovery.
- Incident response.
- Auditing corrective controls.

### Mitigating Controls

- Purpose of mitigating controls.
- Threats to mitigating controls.
- Risk management and mitigating controls.
- Common cybersecurity mitigating controls.
- Assessing cybersecurity mitigating controls.



#### Compensating and Redundant Controls

- Compensating and redundant controls.
- Common controls.
- Common threats.
- Audit approaches.

#### Assessing Cybersecurity in Operational Audit Programs

- IIA Standards and implementation guidance.
- IIA GTAGs and practice guides.
- Common security control frameworks.
- Cloud Security Alliance cloud controls matrix.
- Applying cybersecurity assessments to work programs.

## ABOUT THE TRAINER

### CHANG MING CHEW

CISA, CRISC, CGEIT, CIA, CRMA, qAC, CMIIA, FCCA, CA (M)

Ming Chew has over two decades of experience in a wide range of areas including statutory audit, transaction reporting for IPOs, share registration and IPO processing, internal audit, risk management, IT/cybersecurity advisory, operational risk and control review, financial due diligence, management consulting, and corporate governance advisory. He serves a broad spectrum of clients, from private and public listed companies to multinational corporations, across various industries for their outsource/co-source internal audit needs. These industries include financial services, property development, engineering & construction, plantation, manufacturing, hotel & leisure, oil & gas, furniture, food & beverages, retail, pharmaceutical, logistics, information technology, and non-governmental organisations.

Ming Chew is also actively involved in providing corporate training on governance, ERM, business continuity, cybersecurity and corporate liability to companies of various sizes from public listed to small & medium enterprises. Additionally, he is actively involved with professional associations such as the Institute of Internal Auditors Malaysia (IIAM) and the ISACA Malaysia Chapter, serving on various committees and delivering talks at seminars and public forums to advocate for the profession of internal audit.



### ADMINISTRATIVE DETAILS

<b>TARGET AUDIENCE</b>	LEVEL I-II
<b>MEMBER'S FEE</b>	RM2,916.00 <i>Fee is inclusive of 8% SST</i>
<b>NON-MEMBER'S FEE</b>	RM3,348.00 <i>Fee is inclusive of 8% SST</i>
<b>EARLY BIRD FEE</b>	10% discount for registration received one (1) month prior to respective workshop dates
<b>DATE</b>	3 & 4 December 2024
<b>TIME</b>	9:00 am – 5:00 pm <i>(Registration on Day1 at 8:30am)</i>
<b>DELIVERY MODE</b>	Physical Class
<b>LOCATION</b>	KUALA LUMPUR
<b>PROGRAMME CODE</b>	2024/KL70
<b>TRAINER</b>	<b>Chang Ming Chew</b>
<b>CPD POINTS</b>	16

#### Disclaimer

This course has been planned as a classroom training session. In the event that the training session is converted to virtual format, a rebate of RM300 will be given for each participant. T&C apply.

## COURSE DETAILS

Course Title 2024 Fundamentals of Cybersecurity Auditing

Course Code 2024/KL70 Course Date(s) 3 & 4 December 2024

## DELEGATE 1

Full Name (as per IC) \_\_\_\_\_

Designation \_\_\_\_\_

NRIC \_\_\_\_\_ Gender  Male  Female Race \_\_\_\_\_

Mobile No. \_\_\_\_\_ Email Address \_\_\_\_\_

Member  Non-Member Membership No. (only applicable for members) \_\_\_\_\_

Dietary Preferences  Vegetarian  Non-Vegetarian

## DELEGATE 2

Full Name (as per IC) \_\_\_\_\_

Designation \_\_\_\_\_

NRIC \_\_\_\_\_ Gender  Male  Female Race \_\_\_\_\_

Mobile No. \_\_\_\_\_ Email Address \_\_\_\_\_

Member  Non-Member Membership No. (only applicable for members) \_\_\_\_\_

Dietary Preferences  Vegetarian  Non-Vegetarian

If you are sending more than 2 delegates, kindly send the delegates details in an Excel File format.

## CORPORATE DETAILS (only applicable for corporations)

Corporate Member Corporate Membership No: \_\_\_\_\_

Corporate Non-Member

## CONTACT DETAILS

Organisation Name \_\_\_\_\_ Company Registration No. \_\_\_\_\_

Mailing Address \_\_\_\_\_

Contact Person \_\_\_\_\_ Designation \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_ Email Address \_\_\_\_\_

## BILLING DETAILS

please tick if billing details are the same as contact details.

Contact Person \_\_\_\_\_ Designation \_\_\_\_\_

Billing Address \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

Email Address \_\_\_\_\_

For non-member, would you like to be contacted to know more about IIA Membership programme?  Yes  No

## ENQUIRY & REGISTRATION

1-17-07, Menara Bangkok Bank, Berjaya Central Park, 105 Jalan Ampang, 50450, Kuala Lumpur, Malaysia  
Tel: +603 2181 8008 ext 210/211/212/213 Fax: +603 2181 1717 Email: training@iiam.com.my Website: www.iiam.com.my

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## PAYMENT DETAILS

Payment Details	Member Rate (per person) for KL-code related courses	Non-Member (per person)	8% SST	Total with SST
Fee (per pax) RM				
No. of pax				
Subtotal				

All registrations **MUST** be accompanied with full payment. Upon receipt of your registration, you are deemed to have read and understood the registration procedures and accepted the terms and conditions contained therein. (Please tick (✓) the chosen method)

Enclosed is a cheque/bank draft no. \_\_\_\_\_ for the sum of RM \_\_\_\_\_ payable to **THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA**

### LOCAL PAYMENTS BY CHEQUE / INTERBANK GIRO

All payments should be crossed and made payable to **THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA**

Bank Details: United Overseas Bank (M) Bhd. USJ Taipan Branch, No.7, Jalan USJ 10-1, USJ Taipan Triangle, 47620 UEP Subang Jaya, Selangor  
Account No.: 165-301-514-9 Bank Swift Code: UOVBMKYL

### OVERSEAS PAYMENTS BY WIRE TRANSFER (USD only)

Beneficiary: **THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA**

Address: 1-17-07, Menara Bangkok Bank, Berjaya Central Park, 105 Jalan Ampang, 50450 Kuala Lumpur, Malaysia

Beneficiary's Bank: STANDARD CHARTERED BANK MALAYSIA BERHAD

Beneficiary's Bank Address: Level 18, Menara Standard Chartered, No.30 Jalan Sultan Ismail, 50250 Kuala Lumpur

Account No.: 312-170-024-235 Bank Swift Code: SCBLM-YK-XXXX

All wire transfer payments should include USD\$30.00 (overseas) and RM25.00 (local) for wire transfer processing fee. For GIRO, please include RM1.00 as bank charges. (Please fax the bank-in slip to +603 2181 1717 or email to training@iiam.com.my)

### CREDIT CARD

I hereby authorise **THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA** to charge to my credit card. to the value of

RM \_\_\_\_\_ Card Type:  VISA  MASTER

Card Number:

Expiry Date: \_\_\_\_\_ Cardholder's Name \_\_\_\_\_

I understand that any amount drawn from my credit card will first be cleared with the credit card authorisation facility.

Signature (As per credit card) \_\_\_\_\_ Date \_\_\_\_\_

## TERMS & CONDITIONS

### FEE

- Fee is payable to "THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA". Please state your name, payment advice number, phone number and Workshop Code number at the back of the cheque/bank-in slip. Admittance will only be permitted upon receipt of full payment
- The fee covers a copy of course material\*, lunches, refreshment, and Certificate of Attendance.
- Full payment is to be made before the date of the course. Fee is inclusive of 8% SST.
- Walk-in delegates will only be allowed if full payment is made, subject to the availability of the seat.
- This course has been planned as a classroom training session. In the event that the training session is converted to virtual format, a rebate of RM300 will be given for each participant. T&C apply.

### HUMAN RESOURCE DEVELOPMENT CORPORATION (HRDC) SBL KHAS CLAIM(S) [APPLICABLE TO HRDC SBL KHAS CLAIMABLE COURSE(S) ONLY]

- Claimants are fully responsible:
  - To provide IIA Malaysia with the HRDC grant approval notification (letter or email) minimum 7 working days before the commencement of the course(s).
  - To provide IIA Malaysia with Letter of Undertaking (LOU) for full settlement of the course fees if grant approval notification is received from HRDC prior to the commencement of the course(s).
  - To adhere to all terms and conditions set by HRDC (i.e., full attendance of the courses).
  - For timely completion and submission of all required HRDC documents as per their requirement.
  - To follow up and respond to any queries from HRDC and attain the approval of grant claim(s) within 60 days from the completion of the course(s). If no grant claim approval is attained within 60 days, claimants are responsible to arrange for an immediate full settlement of the course fees(s). Should a late approval is attained post the full settlement, IIA Malaysia will arrange for the reimbursement accordingly based on the approved grant claim.
  - The HRDC Grant Approval Amount falls within the purview of HRDC. IIA Malaysia is obligated to adhere to the HRDC procedure and permissible cost matrix. In the event that the approved amount is less than the total training cost, the participant or attending corporate entity is required to cover the remaining balance.

### CANCELLATION

- Upon registering, participant(s) are considered successfully enrolled in the course. Should participant(s) decide to cancel/transfer their registration, a cancellation/ transfer policy shall be applied as follows.
  - Written cancellations should be received by 14 working days before the workshop date to get the refund.
  - Written cancellations should be received by 7 working days before the workshop date to get a partial refund after deduction of 50% administrative charge. Unpaid registrations will also be liable for 50% administrative charge.
  - Written cancellations/no-show on the day of the workshop.
    - No refund will be entertained.
    - Unpaid registrations will also be liable to full payment of the registrations fee. Partial cancellation is not allowed.
  - You can substitute an alternate delegate(s) if you wish to avoid cancellation charges. Any differences in fees will be charged accordingly.

### RESERVATION

- The Institute reserves the right to make changes to the venue, date, topic, speaker including cancellation if warranted by circumstances beyond its control.
- The Institute reserves the right to utilize any recordings or photographs taken during the delivery of the course(s) for marketing and advertising purposes.
- The Institute is not responsible for the action, advice or representations of the trainer / speaker.
- Registration will be on first-come, first-serve basis.
- Certificates of Attendance will be issued an "E-certificate" via email. For this purpose, it is COMPULSORY to fill in the email address clearly. Certificate will only be given to participant who attended the session in full.
- Upon signing this form, you have deemed to have read and understand the registration term and condition and therefore have accepted the terms contained herein.

### DATA PROTECTION

Personal Data is gathered in accordance with the Personal Data Protection Act 2010 (Act 709). The Institute of Internal Auditors Malaysia (IIA Malaysia) hereby inform you that your personal data will be processed, retained and used by IIA Malaysia in relation to this Workshop. Your personal data may also be retained and used by IIA Malaysia to market and promote other training programmes conducted by IIA Malaysia.

### DISCLAIMER

The Institute of Internal Auditors Malaysia (IIA Malaysia) reserves the right to change the speaker(s), date(s) or to cancel workshop(s) should circumstances beyond its control arise. IIA Malaysia also reserves the right to make alternative arrangements without prior notice should it be necessary to do so. IIA Malaysia is not responsible for any incidental cost of participants (i.e. return flights, accommodation and etc) due to changes or cancellation of course(s). Upon submitting the registration form, you are deemed to have read and accepted the terms and conditions.

\* Subject to approval of the proprietor.

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