

# Secure Coding and Application Security Workshop



Course Fee: HK\$6,800 (May apply up to HK\$4,533 subsidy)

\*Maximum saving, with the final grant subjects to approval.



Secure design and coding in DevOps with Threat Modelling are advanced and innovative in the software development market.

COVID-19 has accelerated digitalisation of businesses and increased presence of e-commerce. While company security doesn't run at the same pace, it widens the appetite of hackers. As a result, many data leakage events arose from non-secure web applications.

It is crucial for businesses to make sure that their points of contacts (web applications) are secure to use in order to provide a safe experience for the customers.

The 2-day workshop is tailored for the ones with programming experience. It will take you through the web technology knowledge, common coding issues of web application, cloud security and secure coding to protect them. A practical hands-on lab will be provided to enhance participants' understanding of secure coding.

Programme code	10013479-01
Date and time	8-9 March 2023 09:30 – 17:00 (13 Hours)
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
Medium	Cantonese with English terminology
Fee	<p><b>Early bird price on or before 8 February 2023</b></p> <ul style="list-style-type: none"> <li>Staff of Organiser or Member of Supporting Organisation: HK\$6,500 per person</li> <li>Non-member: HK\$6,600 per person</li> </ul> <p><b>Regular Price</b></p> <ul style="list-style-type: none"> <li>Staff of Organiser or Member of Supporting Organisation: HK\$6,700 per person</li> <li>Non-member: HK\$6,800 per person</li> </ul>
Remarks	The application deadline is <b>15 March 2023</b> . Late submission will NOT be considered.

## Supporting Organisations (in arbitrary order)



This course is an approved Reindustrialisation and Technology Training Programme (RTTP), which offers up to 2/3 course fee reimbursement upon successful applications. For details: <https://rttp.vtc.edu.hk>.

## Course Outline

### DAY 1

- Latest web security landscape
  - ✓ Web technology concepts
  - ✓ Well known web compromised security incidents
- OWASP ZAP and its usage
  - ✓ Hand-on exercise with OpenCart
- OWASP Top 10
  - ✓ OWASP Top 10 2021 for Web Application
  - ✓ Demonstration with OWASP Juice Shop
  - ✓ How to harden website to prevent OWASP Top 10 issues

### DAY 2

- Summary on common web application issues (on different platforms and applications)
  - ✓ Insufficient HTTP Headers
  - ✓ CSP, SOP, CORS
  - ✓ Issues with Client-Side Security Measures
  - ✓ In-depth into Cookies and Sessions
  - ✓ Local Storage
  - ✓ Insufficient Data Escaping
- Application Security Threat Modeling
  - ✓ Common threat models: STRIDE, Cyber Kill Chain, etc.
  - ✓ Threat modelling process
  - ✓ Tool: OWASP Threat Dragon
  - ✓ Threat modeling exercise
- Secure coding workshop
  - ✓ Secure coding concepts
  - ✓ Hands-on exercise on securing web application (virtual machine with all relevant security tools will be provided)
- Application security in the cloud
  - ✓ DevSecOps and CI/CD
  - ✓ Cloud application security best practices

#### RTTP Training Grant Application

Companies should submit their RTTP training grant application for their employee(s) via <https://rttp.vtc.edu.hk/rttp/login> at least two weeks before course commencement. Alternatively, [application form](#) could be submitted by email to [rttp@vtc.edu.hk](mailto:rttp@vtc.edu.hk) along with supporting documents.

## Target Audience

Anyone with an interest in secure coding and application security includes:

- ✓ IT Officer/Manager
- ✓ Programmer/Developer
- ✓ Information Security Personnel
- ✓ Product Manager

*Note: Programming experience is required.*

## Trainer

### Mr Bernard KAN

Bernard KAN has over 20 years of experience in information security as a security team leader in Banking and Telecommunication industries and HKCERT.

He has been delivering quality information security training to enterprises, talks in security conference and sharing sessions to NGOs. He was a frequent speaker for security awareness training.

He had been a part-time lecturer a post-graduate Information Security certificate course of City University of Hong Kong for 6 years.

Bernard holds various professional certifications, including CISSP, CCSP, GCIA, GCIH, CWSP, CCNP, MCSE and CEC. He is a Master of Science degree in E-Commerce.

## Enrolment Method

1. Scan the QR code to complete the enrolment and payment online.
2. Mail the crossed cheque with payee name “Hong Kong Productivity Council” (in HK dollar) and the application form should be mailed to Hong Kong Productivity Council, 2/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Ms June LEE). Please indicate the course name and course code on the envelope.

(Only receipt printed with receipt printers at HKPC is valid. Receipt of cheque payment is subject to bank clearance.)



<https://www.hkpcacademy.org/en/10013479-01/>