hkpc Academy 生產力學院

Secure Coding and Application Security Workshop

FUTURESKILLS
CONNECTION TECHNOLOGY 裝備未來

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	10016348-01
Date and time	2 days 09:30 – 17:00 (13 Hours)
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
Medium	Cantonese with English terminology
Fee	Early bird price **on or before 4 weeks prior to the commencement day** - Staff of Organiser or Member of Supporting Organisation: HK$6,500 per person - Non-member: HK$6,600 per person Regular Price - Staff of Organiser or Member of Supporting Organisation: HK$6,700 per person - Non-member: HK$6,800 per person
Remarks	The application deadline is 3 weeks prior to the commencement day. Late submission will NOT be considered.

Supporting Organisations (in arbitrary order)

AiTLE   香港工業總會 FHKI Federation of Hong Kong Industries   HKGCC Hong Kong General Chamber of Commerce 香港總商會 1861   160   INFORMATION SECURITY GROUP HONG KONG www.hkisg.org   HKitIC   Hong Kong Internet Service Providers Association HKISPA

Hong Kong Software Industry Association 香港軟件行業協會   WTIA 香港無線科技商會 20   iProA Internet Professional Association 互聯網專業協會   ISACA Macao Chapter   OWASP 香港 HONG KONG The Open Web Application Security Project   香港電腦教育學會 The Hong Kong Association for Computer Education

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

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/10016348-01/