Securing Your E-Commerce Web Application Against Cyber Threats

Course Fee: HK$6,400 (May apply up to HK$4,266 subsidy)
*Maximum saving, with the final grant subjects to approval.

Website is indispensable for running business nowadays. Some businesses use website to present product and service information while others go further to incorporate e-commerce capability into the website. With the impact of COVID-19, more companies pay more effort in the development of e-commerce.

Business websites might hold valuable data and become attractive targets of hackers. Many data leakage and system compromise cases are the result of insecure web applications.

This course will take you through the journey of recent development of web applications, common web application security issues and how to secure them. A hands-on lab provides practical experience to participants on checking and verifying security (or penetration testing) of a fully functioned e-commerce website.

Programme code	10010840
Date and time	29 - 30 June 2021 09:30 – 17:00
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
Medium	Cantonese with English terminology
Fee	**Early Bird Price (deadline on 28 May 2021):** - Staff of Organiser or Member of Supporting Organisation: HK$6,000 per person - Non-member: HK$6,200 per person **Regular Price:** - Staff of Organiser or Member of Supporting Organisation: HK$6,200 per person - Non-member: HK$6,400 per person **Member of HKRMA**: HK$6,000 per person
Remarks	The application deadline is **22 Jun**

Course Objectives

By going through this programme, participants should be able to:

✓ Understand the recent web technology and web application security landscape

✓ Understand the OWASP Top 10 web security issues

✓ Understand and apply the web application security concepts, techniques and tools learnt to fix OWASP Top 10 issues in different platforms

✓ Apply the skills learnt from Juice Shop hands-on exercise and tools in assessing the security of (or penetration testing) a fully functioned e-commerce website

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

- Introduction to the latest Web Security Landscape
  - ➢ Basics of web technology
  - ➢ Well known web compromised security incidents
  - ➢ Application Security Concepts
    - ✓ Least Privileges
    - ✓ Secure By Default
    - ✓ Defense In Depth
    - ✓ Trust No Input
    - ✓ Open Design
    - ✓ Fail Securely
    - ✓ Reuse of Existing Security Controls In A Framework Or Language
    - ✓ Robust Error Checking
    - ✓ Logging
    - ✓ Data Protection
  - ➢ 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
  - ➢ OWASP Top 10 for Web Application
    - ✓ What are OWASP Top 10?
    - ✓ How to harden website to prevent OWASP Top 10 issues

- Tools for Website Security Testing and Verification
  - ➢ Useful Chrome browser plugins for developers
  - ➢ OWASP ZAP, etc.

- OWASP Juice Shop Workshop
  - ➢ Hands on exercise to identify security vulnerabilities and fix them

Certificate of Training

Participants who have attained 75% or more attendance of lecture will be awarded an Attendance Certificate.

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 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, GCIA, GCIH, CWSP, CCNP, MCSE and CEC. He is a Master of Science degree in E-Commerce.

Target Audience

✓ Website owners interested in web application security

✓ Web application developers

✓ Information security staff interested in enhancing hands-on experience on web application testing

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 along with supporting documents.

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 Tracy CHOY). 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/programmeDetail.jspx/10010840

Supporting Organisations

ACFE Association of Certified Fraud Examiners Hong Kong Chapter 特許詐騙審查師學會-香港分會

CSA cloud security alliance℠ CSA Hong Kong and Macau Chapter

CAHK 香港通訊業聯會 Communications Association of Hong Kong

HKCERT

HKCS HONG KONG COMPUTER SOCIETY 香港電腦學會

WTIA 香港無線科技商會

HKRMA

HTCIA HIGH TECHNOLOGY CRIME INVESTIGATION ASSOCIATION ASIA PACIFIC CHAPTER

Internet Society Hong Kong Chapter

PISA

Inquiry Ms Tracy CHOY| +852 2788 5884| tracyc@hkpc.org