

## Ethical Hacking and Countermeasures

As an IT professional, you need to develop an all-round competency in handling security incidents. This class will immerse the student into an interactive environment where they will be shown how to scan, test, hack and secure a system. When a student leaves this intensive course, they not only practice in ethical hacking, but also learn the countermeasures with hands-on experiences.

### Course Content

- 1) Introduction to ethical hacking
- 2) A hacker's view of TCP/IP protocols and their vulnerabilities
- 3) FIVE(5) phases of hacking
  - (i) Reconnaissance (Social Engineering, Physical Break-In, Dumpster Diving, Using Web, Whois and DNS)
  - (ii) Scanning (War Dialing, Network Mapping, Port Scanning, Vulnerability Scanning, IDS Evasion Techniques, WLAN Scanning)
  - (iii) Gaining Access (Buffer Overflow, Password Cracking, Web Application Attack, SQL Injection, Cross-Site Scripting, Sniffing, IP Spoofing, Session Hijacking, DoS, DDoS, Web Browser Attack, Mail Client Attack)
  - (iv) Maintain Access (Privilege Escalation, Trojans, Active and Passive Backdoor Command Shell, File-level and Kernel-level Rootkits)
  - (v) Cover the track (Log Clearing, Steganography, Cover Channel and Evidence Erasing)
- 4) Countermeasures to various attacks
- 5) Instructor Demonstration
- 6) Latest cover of the wireless security
- 7) 20+ hours hands-on (students who need to bring their notebook for exercises)

Successful application under the  
**SME Training Fund**  
will receive a grant covering up  
to **70%** of the course fee.  
For details: please visit  
[www.smefund.tid.gov.hk](http://www.smefund.tid.gov.hk)

### Course Schedule

Course Code: PD 4101                      Time: 7:00pm – 10:00pm  
Duration: 3 hours x 12 sessions        Schedule: 18-Oct-2004 to 24-Nov-2004 (Mon and Wed)  
Language: Cantonese & English        Venue: Department of Computing, The Hong Kong Polytechnic University

### Course Fee

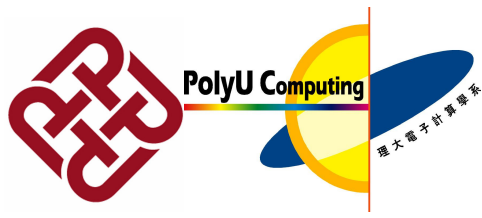
Normal    : HK\$9,600        Early Bird Discount (Enrol on or before 30-Sep-2004) : HK\$7,680  
For PolyU Students / Graduates        : HK\$4,800

**Instructors:** Member of Professional Information Security Association (PISA), and Certified Information Systems Security Professional (CISSP) with many years working experiences in IT industry as well as hands-on experiences in information security area.

**Certification:** A certificate of completion will be awarded to students who have attended at least 80% of the course.

**Enquires:** Please contact Ms. Yvette Lui (呂小姐) at 2766-7322 or fax to 2774-0842.

**Organizers:** Department of Computing, The Hong Kong Polytechnic University (<http://www.comp.polyu.edu.hk>)  
Data Cog Corporation Limited (<http://www.datacog.com/training>)



### **Ethical Hacking and Countermeasures - Enrolment Form**

Course Code : PD 4101

Course Name : Ethical Hacking and Countermeasures

Name in English (Mr/Miss/Mrs) : \_\_\_\_\_

Name in Chinese : \_\_\_\_\_

Address : \_\_\_\_\_  
\_\_\_\_\_

Organization : \_\_\_\_\_

Position : \_\_\_\_\_

Business Address : \_\_\_\_\_  
\_\_\_\_\_

Tel (Office) : \_\_\_\_\_ Tel (Mobile) : \_\_\_\_\_

Fax : \_\_\_\_\_ Email : \_\_\_\_\_

PolyU Student / Graduate:  Yes  No Student ID / Graduate Year: \_\_\_\_\_

Course Fee :  \$9,600  \$7,680  \$4,800

Application Date: \_\_\_\_\_

Signature

#### **Important**

- Course fee must accompany this form (or its photocopy), otherwise enrolment may be rejected.
- The application date for early bird is based on the stamp chop.
- Course fee is non-refundable once application is success.

#### **Application**

To enrol, please complete this enrolment form and send it with the appropriate fee by crossed cheque made payable to "The Hong Kong Polytechnic University", at the following address: "Attn: Ms. Yvette Lui, Department of Computing, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong"

#### **Enquires**

Please contact Ms. Yvette Lui (呂小姐) at 2766-7322 or fax to 2774-0842.

#### **Organizers**

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