



### ❖ Course Description

Network infrastructure is the most critical part of your organization. Single security hole in one of your connected machines can lead to major security breach and might cost your company millions of dollars. Using security software is not the solution. You should be familiar with how bad guys are attacking your networks. This course is a comprehensive journey in network attack and defense.

### ❖ Type of Delivery

Instructor-Led Training

### ❖ Duration

10 days

3 hours/ Session

### ❖ Training Benefits

The following benefits provided with our training

- Study Materials (Soft Copy on CD-ROMs)
- Student Guide
- Professional Presentations
- Video Demos, Tutorials and Practice
- Open Source Security Tools CD
- Exam & Project (Obligatory)
- C3I Accredited Certificate from ASK PC
- Certificate of completion from ISSA Egypt
- CISSP CPE credits
- ISSA membership and much more!

### ❖ Course Contents

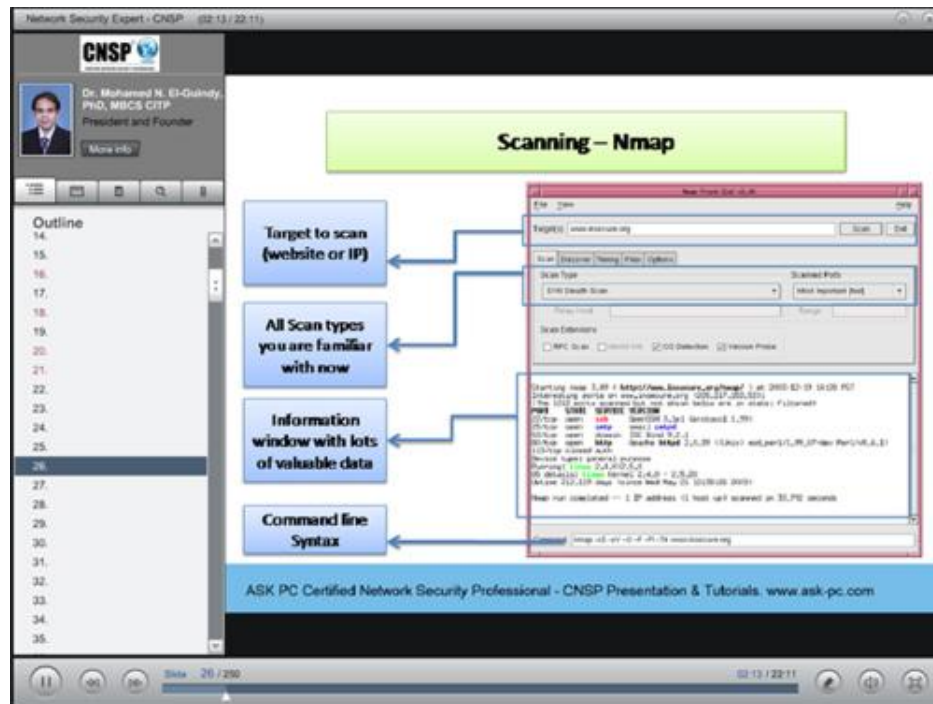
Through our Instructor-Led training, you will learn How hackers can accurately collect and assimilate information about an organization's infrastructure whilst avoiding detection. Also understanding the measures to secure and protect information against hacker attacks. How information may be used to assess weaknesses and subsequently launch an attack against a target. We will concentrate also on using the tools, techniques and methodologies employed by hackers to find vulnerabilities.



### ❖ A few of the covered topics are

- Security as a challenging job for IT professional
- Security from inside out!
- Hackers, crackers, script kiddies etc
- What is ethical hacking?
- Game terminology
- Hacking methodology
- How hackers find you?
- Scanning techniques
- Understand network cartography
- Enumerating vulnerable machines
- Gaining access to the system
- Hacking Windows OS
- Understanding Windows encryption
- Password hacking techniques
- Security measures
- Understanding IPsec
- Hacking Linux
- Linux Vulnerabilities
- Network Infrastructure security

- Discovering infrastructure
- Network infrastructure threats
- OSI Model Security
- Infrastructure vulnerabilities
- Application Level attacks
- Understanding buffer overflow
- Countermeasures
- Understanding Vulnerability assessment
- VM – Vulnerability management overview
- Discovering and exploiting vulnerable target
- Exploitation frameworks
- Understanding Metasploit
- Real-world hacker techniques
- Attacking the user
- Understanding malware
- Viruses and worms – understanding attack mechanism
- Well-known virus types
- Writing virus code
- Trojan Horses
- Rootkits and backdoors
- Bots and Zombies
- Malware – Detection and Cleaning
- Deceptive Software and other Crimeware
- Client-side attacks
- Understanding Social Engineering attacks
- Phishing techniques
- Understanding Infrastructure Attacks
- MITM, DoS, DDoS, Sniffing, Hijacking, DNS poisoning etc
- Wireless Network vulnerabilities and attacks
- Understanding techniques and tools for WIFI hacking
- 6 Key strokes to attack WEP
- Wireless defense
- Infrastructure defense
- Understanding firewalls
- IDS, DMZ, Honeybots VPN etc
- Understanding Cryptography
- Shift Key cryptography
- Symmetric and asymmetric key cryptography
- Text Frequency analysis and cryptography
- And much more



### ❖ Who should attend

Those responsible for the security of IT systems, including but not limited to: System/Network Administrators, Crime Prevention, protection Officers, Auditors, Security Officers, and Information Security Professionals & Penetration Testers.

### ❖ Prerequisites

A familiarity of TCP/IP and a background in Microsoft Windows and/or UNIX is desirable. Also understanding of network fundamentals is highly recommended. For your convenience, download our free Network course to enhance your IT knowledge: <http://www.ask-pc.com/askIT.php> (Arabic syllabus).

❖ **Course certification**

Upon completing our offsite assessment in addition to the project, you will be eligible to get your CNSP certificate from ASK PC and CPE report from ISSA Egypt. This course is offering CEUs from IEEE and IACET for more information: [www.ieee.org/partners](http://www.ieee.org/partners)

❖ **ISSA Egypt**

This course is provided for ISSA Egypt chapter as an advanced level in IS security. ASK PC is the founding sponsor and course provider for ISSA Chapter in Egypt. You will get also CPE credits for CISSP certification upon completing this training.

More information at [www.issa-eg.org](http://www.issa-eg.org)

❖ **About the author**

Dr. Mohamed N. El-Guindy, PhD, MBCS CITP, ABILD is the author of CNSP course in addition to other IS security courses for ASK PC. He is also the founder and president of both ASK PC and ISSA chapter in Egypt. He has broad experience in the field of Information Technology and also speaker in many security events.

For more information, kindly check this page:

<http://www.ask-pc.com/founder.html>



CPE credits: 30



Egypt chapter dedicated training



More about our partners: <http://www.ask-pc.com/partnerstec.html>

Check our security training and courses:



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