training code: BS.IT 01 / ENG AA 3d / EN

Introduction to IT security issues

Purpose of the training

The training is addressed to people who deal with IT system security at the company, especially for Security Managers, SOC members, network and system admins.

Benefits of completing the training

At the training student is acquainted with IT security policy issues at the company, based on global standards and methods tested in huge corporations. The latest security technologies, which are compatible with requirements of Polish law in this area, will be presented during the training.

Expected Listener Preparation

General IT knowledge from operational systems and network issues

Training Language

- Training: English
- Materials: English

Duration

3 days / 21 hours

Training agenda

1. Introduction to the security topic
   - What is IT security?
   - Terminology
2. Organizations and standards
   - Criteria of evaluating the level of security
3. Security Management
   - Initiating IT security processes
   - Formulating security procedures
   - Dangers and securities considered while formulating security policy
4. Cryptography and PKI environment
   - Terminology and standardizing organizations
   - Algorithms
   - Hash functions
5. Protocols and mechanisms for securing data transmission
   - SSH
   - PGP
   - SSL/TLS
   - Data tunneling
6. User authentication methods
   - LDAP
   - Kerberos
7. Network and TCP/IP
   - Introduction to TCP/IP
   - Authentication methods in LAN networks
   - Wireless network security
8. Network scanning
   - Network mapping
   - Port Scanning
   - Detecting OS
9. Describing typical and current attack trends
   - Types of attacks
   - Prevention
   - Sources of information about new types of attacks
10. Detection and Prevention Systems (IDS/IPS)
    - IDS host
    - IDS network
    - Firewalls

- Firewall types
- Actions and implementations

11. VPN networks
    - SSL VPN
    - IPsec VPN
12. Good practices
    - Methods of verifying system’s integrity
    - Collecting and securing logs
    - What to monitor and how to do that?