

## Cisco/NetScreen Firewall + VPN – 24 hrs

Higher Certificate in Network and Web Security (Cisco/NetScreen Firewall + VPN)

### 課程簡介

現代企業所依重的網絡保安工具，便是耳熟能詳的 Firewall(防火牆)。Firewall 的功用是隔絕外界的非非法入侵者，除此之外，它亦能記錄及阻隔公司內部同事瀏覽外間互聯網的情況，是現今網絡保安的必修科目。

另外，VPN 則是一種用來加密數據傳輸的方法。透過 VPN，企業可利用互聯網連接世界各地，這亦是現今企業最流行建立 WAN(Wide Area Network)的方法。

Cisco PIX 及 NetScreen 均可用來建立 Firewall 或 VPN。它們亦分別代表市場上最流行的高階及中階產品。

### 課程目標

本課程針對網絡保安管理而設，重點教授學員 Cisco PIX 及 NetScreen 的 Firewall 及 VPN 的設定。修畢課程後，除可學懂 Firewall 及 VPN 的實際設定外，更能考取 Cisco 及 NetScreen 的相關認證，成為保安專才。

### 課程內容

#### Firewall/VPN Device Configuration

- ✧ Identify hardware components & functions.
- ✧ Describe remote access configuration requirements & commands.
- ✧ Configure local management options.
- ✧ Upgrade device software.
- ✧ Manage configuration files (including configuration rollback).

#### Layer 2 / Transparent Mode Operations

- ✧ Describe characteristics & operations of transparent mode.
- ✧ Configure transparent mode.

#### Layer 3 Operations

- ✧ Configure static routes.
- ✧ Discuss the use of multiple VRs.
- ✧ Verify routing operations.
- ✧ Describe NAT and route mode operations.
- ✧ Configure NAT and route modes.

#### Policy Configuration

- ✧ Configure address book entries & address groups.
- ✧ Configure service parameters & service groups.
- ✧ Configure basic policies.
- ✧ Configure advanced policy options.
- ✧ Configure multi-cell.
- ✧ Explain & verify policy operations.

#### Attack Prevention

- ✧ Describe SCREEN functions.
- ✧ Describe Deep Inspection functionality.
- ✧ Describe attack objects & severity levels.
- ✧ Configure Deep Inspection.
- ✧ Describe anti-virus functionality.
- ✧ Configure anti-virus settings.

#### Address Translation

- ✧ Distinguish between NAT options.
- ✧ Configure NAT-src (including DIPs).
- ✧ Configure NAT-dst.
- ✧ Configure MIPs.
- ✧ Configure VIPs.
- ✧ Verify address translation.
- ✧ List basic VPN requirements.
- ✧ Describe IPSec operations (Phase 1/2, Diffie-Hellman, ESP/AH, etc.).
- ✧ Configure policy-based VPNs.
- ✧ Validate VPN operations.
- ✧ Differentiate route-based and policy-based VPNs.
- ✧ Describe tunnel interface operations.
- ✧ Configure route-based VPNs.
- ✧ Validate VPN operations.
- ✧ Describe Remote Client options.
- ✧ Configure Remote Client