

## CCNP + CCDP – 93hrs

Higher Certificate in Cisco CCNP + CCDP Network Professional

### 課程簡介

隨著企業的擴張，企業所使用的網絡系統亦無可避免地變得愈來愈複雜，如何設計支援及維修網絡將會是充滿挑戰的工作。本課程將教授學員如何成功地解決以上的難題，課程包括四大元素：Routing——學習數個專業 Routing 的 Protocols，包括：OSPF、IS-IS、及 BGP 等；Switching——學習 VLAN、Multicasting 的設定；Remote Access——學習 X.25、Frame Relay 及 ISDN；Support——各種解決網絡疑難雜症的方法。

### 課程目標

本課程針對欲投身網絡工程師系列人士或已考取 CCNA 的學員而設，課程將教授學員支援及管理各式各樣中大型的網絡，這些網絡往往應用到大型企業及銀行。修畢課程學員除可支援各類型的網絡外，擔當網絡顧問及管理工作，亦可考取 Cisco CCNP 國際證書，認證學員的專業知識。

### 課程內容

#### **Exam 642-801: Building Scalable Cisco Internetworks**

- ✧ Advanced IP Addressing
- ✧ Routing Principles
- ✧ Configuring EIGRP
- ✧ Configuring OSPF
- ✧ Configuring the IS-IS Protocol
- ✧ Manipulating Routing Updates
- ✧ Configuring Basic BGP

#### **Exam 642-811: Building Cisco Multilayer Switched**

- ✧ Course Introduction
- ✧ Configuring VLANs and VTP
- ✧ Implementing Spanning-Tree Protocol
- ✧ Enhancing Spanning Tree Protocol
- ✧ Implementing Multilayer Switching in the Network
- ✧ Improving Availability on Multilayer Switched Networks
- ✧ Examining Cisco AVVID Services and Applications
- ✧ Implementing QoS in Multilayer Switched Networks
- ✧ Optimizing and Securing Multilayer Switched Networks
- ✧ Understanding Metro Ethernet

#### **Exam 642-821: Building Cisco Remote Access Networks**

- ✧ WAN Technologies and Components
- ✧ Supporting Asynchronous Modems
- ✧ Configuring PPP Features
- ✧ Accessing Broadband
- ✧ Virtual Private Networks
- ✧ Using ISDN and DDR to Enhance Remote Connectivity
- ✧ Using DDR Enhancements
- ✧ Configuring Frame Relay with Traffic Shaping
- ✧ Implementing DDR Backup
- ✧ Using QoS in Wide Area Networks
- ✧ Using AAA to Scale Access Control

#### **Exam 642-831: Internet Troubleshooting Support**

- ✧ Establishing a Baseline
- ✧ Determining an Effective Troubleshooting Strategy
- ✧ Resolving Problems at the Physical and Data Link Layers
- ✧ Resolving Problems at the Network Layer
- ✧ Resolving Problems at the Transport and Application Layers