

Module Synopses

POST DIPLOMA CERTIFICATE 1: CERTIFICATE IN NETWORK ADMINISTRATION

1. NETWORK SERVER ADMINISTRATION

This module teaches the installation, configuration, application and use of Network Server Operating Systems. Students are taught how to install, configure and manage users and computers over a network. Topics covered include server installation, configuration, management of accounts and resources, troubleshooting and network security.

2. COMPUTER COMMUNICATIONS

This module provides the basic concepts in data communication. It covers the necessary understanding of essential Networking equipment and techniques used in the implementation of data communication systems. The seven layer communication model is used as guideline to introduce networking concepts.

POST DIPLOMA CERTIFICATE 2: CERTIFICATE IN COMPUTER NETWORKING

1. COMPUTER NETWORKING

This module covers the key routing concepts, network security, address translation and wireless LAN (WLAN) concepts. Topics include understanding and configuring of routing protocols, configuration and management of access control lists and network address translation, and configuring and securing a basic WLAN. Students will learn skills to configure and troubleshoot enterprise networks, and identify and protect the network against cybersecurity threats.

2. INTERNETWORKING

This module covers LAN switching and design, the concept of VLANs, Wide Area Network technologies and design, protocols used to transport voice and data over wide areas. Students are also taught Network planning, managing, network load sharing and network security techniques.

3. NETWORK INTEGRATION PROJECTS

This module allows students to apply their computer networking knowledge and skills to deal with network integration challenges. Through specially-designed quizzes and practical exercises, students will strengthen and reinforce their knowledge and skills in network fundamentals, network access, IP connectivity, IP services, security fundamentals, and automation and programmability. This module also serves to prepare the students for the Cisco Certified Network Associate (CCNA) certification examination.