

# DUXBURY CERTIFIED NETWORK ENGINEER

Advanced Networking

## ● Objective

To build on the student's foundation of basic networking skills by introducing the complete scope of networking and thereby allowing them to gain proficiency in the networking arena.

## ● Class Summary

This course will offer an instructor-led classroom experience with supporting lab exercises.

## ● Class Content

- 7 Layer OSI Module
- 802.3 Ethernet 10/100/1000/10000Mbps
- TCP/IP
- Hubs vs. Switches
- Routers vs. Switches
- IP Subnetting
- Routing
- Layer 2, 3, 4 and 7 Switching
- IEEE 802.1d Spanning tree
- IEEE 802.1q VLANs
- IEEE 802.3ad Link Aggregation Protocol
- DHCP
- QoS
- PoE
- SNMP V1/V2/V3
- RMON
- Lab work
- Exam

## ● Who Should Attend

Anyone wishing to expand their Basic Networking skills, such as Administrative and Support Staff, Network Administrators, Pre-Sales Engineers, Sales Staff, Post-Sales Engineers, Consultants and Small Business Owners.

## ● Prerequisites

- A familiarity with:
  - Open Systems Interconnect Model
  - Ethernet 10/100/1000Mbps
  - TCP/IP fundamentals
  - SNMP
  - Binary & Hexadecimal number systems
- Basic Networking Skills
- PC Skills

### Course Duration

2 days

### Course Cost

R1800.00 Excl. VAT per person

### Contact

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