

# 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

### Course Duration

2 days

### Course Cost

R1998.00 Excl. VAT per person

### Contact

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[www.duxbury.co.za](http://www.duxbury.co.za)

