

Data/IP Networks

TCP/IP & Routing Fundamentals

COURSE AIM:

This course will allow Your Management, Sales and Technical teams to gain a solid understanding of TCP/IP & Routing Fundamentals, providing attendees with an understanding of what the technologies are, what they do and how they impact on the IT and Telecommunications markets, making day to day business that much easier to understand.

BUSINESS OBJECTIVES:

Company Specific. Please detail your top 2 or 3 desired outcomes

COURSE DESCRIPTION:

The Internet and IP form the universal network of the future. New networks like UMTS are based on the Internet protocol family. Even the plain old telephone system (POTS) is replaced by IP-based networks (Voice over IP).

The main functions of the Internet protocol are addressing (IP), transport (TCP/UDP) and routing (RIP, OSPF, BGP).

Following a brief introduction to the mechanisms of the packet-oriented datacom world, this course concentrates on these three main functions. Typical protocols at the application level are also considered.

CONTENT:

- Introduction
 - Basic functions
 - What does packet-oriented mean?
 - Addressing levels
 - ARP
 - IP protocol family
- Addressing
 - IPv4
 - SubNetting
 - SuperNetting
 - IPv6
 - Proxy mechanism
 - DHCP, DNS
- Transport
 - TCP
 - Flow control
 - Congestion control
 - UDP
- Routing
 - RIP
 - OSPF
- – BGP-4
- • Applications
- – FTP, SNMP,
- – HTTP

DURATION:

2 Days