

WANS Demystified

A 1 day training course



Description

Anyone, although the course is particularly aimed at non-technical personnel needing some knowledge of LANS.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Choose and evaluate cables for LANS.
- ✓ Describe how Ethernet works (in simple terms) and when to use Ethernet.
- ✓ Describe how Wireless LANS work
- ✓ Describe the role of Access points.
- ✓ Evaluate wireless technologies and when to use them.
- ✓ List the speeds of various LAN technologies.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning.



Details

Who will benefit?

Anyone, although the course is particularly aimed at non-technical personnel needing some knowledge of LANS.

Prerequisites

None.

Duration: 1 day

Customer rating: ★★★★★

Generic training 	Small class sizes 	Hands On training 	Our courseware 	Customise your course 
<p>Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".</p> <p><i>"Friendly environment with expert teaching that teaches the why before the how."</i> G.C. Fasthosts</p>	<p>We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.</p> <p><i>"Excellent course. The small class size was a great benefit..."</i> M.B. IBM</p>	<p>The majority of our courses use hands on sessions to reinforce the theory.</p> <p><i>"Not many courses have practice added to it. Normally just the theoretical stuff is covered."</i> J.W. Vodafone</p>	<p>We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.</p> <p><i>"Comprehensive materials that made the course easy to follow and will be used as a reference point."</i> V.B. Rockwell Collins</p>	<p>Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.</p> <p><i>"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."</i> S.R. Qinetiq</p>

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Course content

WANS

WAN architecture, Common WAN terms, Core vs access, service providers, relationship with 7 layer model, WAN equipment, how to choose a WAN.

Layer 1

Copper, phone lines, fibre, coaxial, satellite, wireless. Cabling to the building, CPE cabling, interfaces.

Layer 2

Dial up vs. Dedicated vs. packet switched networks and when to use them. Packet switching vs. circuit switching. Point to point and point to multipoint.

Dialup access technologies

Modems, ISDN, BRI, PRI.

Access with dedicated lines

XDSL, leased lines.

WAN services

X.25, SMDS, Frame Relay, CIR, ATM, Internet, MANS, dark fibre and other services.

Case study: Selecting WAN technologies.

Service provider technologies

MPLS, SDH, WDM, DWDM.

Routers

Network addressing, default gateways, routing tables, routing protocols.

Internet architecture

Service providers, ISPs, private peering, public peering, core WANs in the Internet.

VPNs

Private networks, public networks, What are VPNs?, benefits of VPNs, tunnelling, encryption, IPSec.

Case study: Specifying WAN connectivity.

