

Networking Fundamentals

Course Objectives:

This course will provide an introduction to the fundamentals of networking. On completion of the course, delegates will have a clear and sound understanding of the key issues and the current technologies available. They will gain hands-on experience of building a simple network and be able to make informed decisions about specifying and purchasing network components for your business.

Prior Knowledge Required:

The course contains some technical content, so a good basic understanding of computers is required.

Course Duration: 2 days, but course contents can be tailored if required.

❑ Networking Concepts

Understand network terminology and jargon. Also gain an overview of network applications and their usage.

❑ Types of Local Area Network

An explanation of the types of LAN models, including Peer-to-Peer and Client / Server.

❑ Network Connectivity

Gain an understanding of network topologies including design models, cables, switches, and routers. Gain an understanding of the OSI Model

❑ Basics of Wide Area Networking

An introduction to the world of Wide and Global Area Networking (WAN & GAN)

❑ Current Network Technologies

Explanation of Windows NT, Windows 2000, UNIX, Linux, Novell.

❑ Network Protocols

Understand how to use the various network protocols including: Netbeui, IPX/SPX, NWLink, TCP/IP

❑ Network Management

Understand the creation and maintenance of users, groups, drive mapping and logon script basics.

❑ Installing and Maintaining a Printer

Learn how to install a printer and how to undertake preventative maintenance. Be prepared to overcome common problem areas, such as paper jams and installing toner cartridges.

❑ Security Issues

Understanding the importance of backing up data, using anti-virus software and designing password usage procedures.

❑ Building a Network (Hands on)

Set up a network workstation, practising how to log on/off, share drives and peripherals.

❑ Network Troubleshooting

Learn how to diagnose and repair common network problems.

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