

# Course Outline



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## Internet / Intranet Technologies

### Course Description:

The object of this course is to provide delegates with an awareness and understanding of the Internet, Intranet and Extranet Technologies employed in today's networks. At the end of the course, delegates will appreciate the value of the Internet and Intranets as a part of business applications solution, understand how to access the Internet and Intranets, and will have an awareness of the security and performance issues surrounding these technologies.

### Pre-requisites:

Delegates should be familiar with the basic principles of computing. A knowledge of basic data communications would be advantageous.

### Course Content:

- **Overview of Internet, Intranet and Extranet Technologies**
  - Definitions
  - Geography
  - Bandwidth
  - Security
  - Purpose & Deployment
- **The World Wide Web (WWW)**
  - Web Servers - Features & Architecture
  - Web Browsers - Features & Architecture
  - HTTP
- **Evolution of Web Applications**
  - Client Server
  - N-Tier Architecture
  - Thin Client

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- **Intranet Servers**
  - Web Server
  - Mail Server
  - Application Servers
  - Proxy Servers
  - Caching Servers
  - Index Servers
  - Certificate Servers
  
- **The Network Protocols**
  - TCP/IP overview
  - IP Services
  - DNS
  - DHCP
  - RAS
  - IP Applications
  - FTP, TELNET, POP3, SMTP, HTTP
  
- **The Web Server**
  - Operating Systems
  - UNIX
  - Windows NT
  - Vendors & Products
  
- **The Web Browser**
  - Operating Systems
  - Vendors & Products
  
- **Web Server Development**
  - Languages & Tools
  - HTML, DHTML, XML, VRML, Javascript, Vbscript, ASP, JSP, Java Servlets, Java Applets
  - Application Integration
  - CGI
  - ISAPI
  - NSAPI
  
- **Transmission & Media**
  - LAN Technologies

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- **Transmission & Media**
  - Ethernet
  - Routers & IP Routing
  - WAN Technologies
  - PSTN, ISDN, Kilostream, Megastream, Frame Relay, ATM, GSM
  - Vendors & Services
  - Devices
  - Modems, Terminal Adapters, Routers
  
- **Connecting To The Internet, Intranet & Extranet**
  - ISPs - Services & Responsibilities
  - Security - Threats, Intrusion, Viruses, Theft
  
- **Security Methods & Technologies**
  - Authorisation and Authentication
  - Encryption
  - DES, SSL
  - Firewalls
  - DMZs
  - VPNs
  
- **Proxy Servers**
  
- **Caching Servers**
  
- **Index Servers**
  
- **Certificate Servers**
  
- **Deployment & Performance**
  - Planning an Intranet/Extranet
  - Bandwidth
  - Traffic Management
  - Network Partitioning
  - Connection costs
  - Server Specifications
  - Applications

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- **Deployment & Performance**
- Risk Assessment
- Skills Assessment

**Course Duration:**

**3 Days**

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