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Course Profile

Executive Briefing on the Internet & IP Technology

ETS342

Duration:

1 day

Objectives:

Describe the application of the Internet and IP related technologies to business, including a brief history of the Internet and an overview of the current network

Define Routing and Switching and explain performance differences.

Discuss the important issues of names and addresses together with their impact on business is discussed.

Explain the business use of intra- and extranets together with the security implications.

Discuss the issues of B2B and C2B security

Discuss the performance and quality of service issues related to introducing new applications

Who should attend:

Any executive requiring a greater understanding of the impact of Internet technologies on the business environment.

Prerequisites:

None.

Follow-on courses:

None

Course style:

The course is presented as a mixture of explanation and discussion, with questions and contributions from delegates being especially welcome. The briefing concludes with a discussion on key business issues.



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ETS342

Detailed contents:

History and Overview

The Origins

- ARPANET
- NFSNet
- The Internet Today

Requirements of a Network

- Throughput
- Delay
- Reliability
- Security

Common Applications

- The Client/Server Model
- E-mail
- File Transfer
- Web Access
 - Browsers and Servers
- Business to Business
- Consumer to Business
- Remote Login

The Transmission and Internet Protocols

- IP
- TCP
- UDP

Underlying Technologies

- Routers
- Local Area Networks
- Packet Switched Networks
 - Frame Relay
 - ATM

Internet Standards & Structure

IETF and IAB

- RFCs

IANA and ICANN

RIPE, ARIN and APNIC

Functions and Services Provided by ISPs



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ETS342

Detailed contents:

Routing and Switching

Functions of a Router

Routing Protocols

- Interior Protocols
 - RIP
 - OSPF
- Exterior Protocols
 - BGP

Operation of a Switch

- Layer 3 Switches
- MPLS

Types of Router

- Internal Routers
- Access Routers
- Edge Routers
- Core Routers

Addresses and Names

IP Addresses

- The Old Class System
- Classless IP
- IP Version 6
- Obtaining IP Addresses

DNS Names

- DNS Structure
- The Functional Domains
- The Geographical Domains
- Name Registration

URLs

- The Use of URLs

Intranets and Extranets

The Intranet

- Functions & Design
- Security Issues
- Performance Issues

The Extranet

- Functions
- Security Issues
 - Firewalls
 - Intruder Detection Systems



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ETS342

Detailed contents:

Intranets and Extranets (cont.)

Connection Options

- Modems
- ISDN
- DSL
- Cable Modems
- Wireless & Satellite

Business to Business Security

Security Requirements

- Confidentiality
- Integrity
- Replay
- Authentication
- Non-repudiation

Encryption and Hashing

- Symmetric Key Encryption
- Public Key Encryption
- Hashing and Hashing Algorithms
- Public Key Infrastructures
 - Digital Signatures
 - Digital Certificates

Internet Tunnels

- Server-Server Tunnels
 - IPSec
- Client-Server Tunnels
 - Layer 2 Tunnelling
- Virtual Private Networks
 - Security VPNs
 - MPLS VPNs

Consumer to Business Security

Authentication of the User

- Use of Cookies

Authentication of the Server

Security of Personal Data



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ETS342

Detailed contents:

Performance, QoS, and Multimedia

New Applications

- Real-time and Streaming Applications
- Multicasting

Improving Throughput

Reducing Delays

Reducing Packet Loss

Business Issues

The briefing will conclude with a discussion of the key business issues, and how they are affecting the development of the Internet, together with a comparison with alternative technologies.



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To book this course, or to obtain more information, contact:

The Course Administrator

ETS Ltd.

Old Gunn Court

North Street

Dorking

RH4 1DE, UK

Telephone: +44 (0)1306 504 100

Facsimile: +44 (0)1306 880 820

e-mail: sales@etsl.co.uk

internet: www.etsl.co.uk

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