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ETS

Course Profile

Wireless LANs

ETS382

Duration:

2 days

Objectives:

Provide an introduction to wireless and Wireless LAN technology.

Describe existing and future wireless technologies.

Understand the security issues surrounding wireless technology and the solutions available .

Explain how to conduct site surveys to ensure the correct implementation of a wireless LAN.

Explain the benefits and financial justification of implementing Wireless LANs.

Who should attend:

Project Managers, Sales Staff , Designers or Network Managers who are considering implementing or selling Wireless LANs and need an understanding of the benefits and issues involved in implementing them in an organisation. The course is also highly recommended for technical LAN/WAN designers and support staff who have no previous exposure to wireless solutions.

Prerequisites:

An understanding of general networking concepts.

Follow-on courses:

None.

Course style:

The course is presented as a mixture of teaching sessions and discussions including case studies. Short demonstrations may also be given, subject to availability of equipment.



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Key contents:

Evolution of Wireless LANs

Radio Technologies and Antenna Theory

Wireless LAN Topology and Components

802.11 and related standards

Site Surveying

Security in Wireless

Case Studies / Demonstrations



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Detailed contents:

Evolution of Wireless LANs

Overview of Legacy Voice and Data Systems

Wireless LANs – The Business Case & Benefits

In-Building, Building-to-Building vs. City Wide Scope

Regulatory Bodies and Radio Licence issues

Unlicensed vs. Licensed Bands

Radio Technology and Antenna Theory

Overview of Radio Transmission

Spread Spectrum, Direct Sequence and Frequency Hopping

Antenna Types and Design Concepts: Distance Calculations

Line-of-Sight issues: Earth Bulge, Fresnel Zone, Cabling etc.

Wireless LAN Topology and Components

Point-to-Point / Point –to-Multipoint Configurations

Access Points, Wireless Bridges, Wireless Clients

802.11 and Other Wireless LAN Standards

802.11b, 802.11a, 802.11g

802.11d, 802.11e, 802.11f, 802.11h, 802.11j

HomeRF2

HiperLAN2

5-UP

Comparison of Major WLAN Standards



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Detailed contents:

Security of Wireless LANs

Vulnerabilities of sending Data over the Air

WEP/WEP2(TKIP)

802.1x (LEAP/EAP)

802.11i

Site Surveying:

The importance of Site Surveys

Equipment Required

Industry Specific Concerns

The Survey Process & Hazards

Case Studies / Demonstrations

Warehouse Site

Retail Site

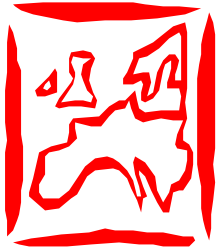
Hospital Site

Hotel Site

Other Technologies:

Competing Technologies

Complimentary Technologies



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

The Course Administrator

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This information is provided in good faith to represent the typical contents of the course material. The course will change as required to keep pace with technology changes and learning styles, as a result the exact contents may differ from those specified here. The benefit of instructor led training is that it will evolve to suit the needs of any specific class, therefore no warranty is given that any specific course will cover the subjects outlined here to any implied level of detail.

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