

Total ISDN for engineers

A 2 day training course



Description

A comprehensive look at ISDN, as used in voice and data environments.



Key outcomes

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

- ✓ Recognise the issues and impacts of using dial up networks.
- ✓ Describe ISDN.
- ✓ Describe ISDN signalling in voice and data environments.
- ✓ Configure a Cisco router to use ISDN.



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 working with ISDN

Prerequisites

Introduction to data communications & networking.

Duration: 2 days

Customer rating:



Generic training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small class sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise your course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

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Course content

Introduction

Dialup connectivity vs. leased lines vs. packet switched networks. ISDN offerings, services, benefits vs. modems.

ISDN architectures

Use of ISDN by routers, Dial up, top up, backup. Internet access, PCs and ISDN.

BRI and PRI

ISDN switches, B channels, D channel, ISDN functions and reference points, NT1, NT2, TE1, TE2, Terminal adapters, R,S,T,U interfaces, ISDN standards.

PPP

Encapsulation, PPP services, PAP and CHAP, Multilink PPP, BACP.

ISDN and the 7 layer model

B channel layers versus D channel layers, the I standards, Q.921, Q.931.

Configuration issues for ISDN

E.164 addressing and IP addresses, ensuring only the correct traffic brings up the ISDN line.

ISDN services

Bearer services, teleservices, supplementary services, MSN, sub addressing, CLI...

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!"

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

