ABC’s Of Broadband & The Internet Explained

COURSE DESCRIPTION

Telecommunications is a fast-changing industry with extensive technical terminology. This course provides a clear explanation of current broadband technologies, presented by an industry expert in plain English and tailored to the context of each participant’s role.

This non-technical foundation program explains current telecommunications systems such as copper, fibre, UFB, wireless, 4G, 5G & RBI, Wi-Fi, Ethernet, the Internet and the World Wide Web, together with the applications they enable, including cloud computing, VR and AR. It also explores the future of telco networks and the applications enabled by high-speed connectivity. Participants will gain a greater understanding of the language and acronyms used across the industry and of what these technologies can deliver for the organisation.

The course is delivered interactively with hands-on exercises and quizzes, and is suited to organisations building telecommunications knowledge across non-technical teams.

WHO SHOULD ATTEND?

Personnel new to telco terminology, including Management, Administrators, Accounts personnel, Human Resources, Marketing, Salespeople, Legal staff and other stakeholders requiring a non-technical overview of current and future telco technologies and applications.

Stakeholders seeking to understand current fixed and mobile broadband offerings and the new applications and ways of working they enable.

SOME COURSE BENEFITS

- Understand modern broadband enabled by Fibre & G-PON, Copper & V-DSL, Mobile & 5G
- Understand the language and acronyms surrounding modern telco networks
- Understand how new applications and new ways of working will lead to efficiencies and productivity gains & lifestyle changes

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COURSE OBJECTIVES

By the end of this course participants will be able to:

- Explain the drivers for high speed broadband networks
- Clarify the language & technologies surrounding fibre optics networks
- Understand V-DSL, G-PON, Ethernet and 4/5G: the technologies, benefits and limitations
- Understand the future of 5G and IP services and the applications they enable

DURATION

5 hours (10am – 3pm).

CONTENT

Non Technical Overview of Current Telco Networks & New Applications

10:00 – 11:20

- Terminology Exercise
- Data and Voice explained
- Why Digital
- Circuits v Packets (physical v virtual)
- Transmission Mediums - Copper, Fibre, Wireless (new vs. old)
- The aging Local Loop, PSTN, ISDN, x-DSL
- LAN's & WAN's
- A Simple Reference Model

11:40 – 13:00

- Global Broadband Projects Explained
- Fibre Broadband – The UFB
- Fibre Optic Technology
- Fibre Optic Networks and Applications for NZ
- Wireless Broadband – The RBI
- Mobile Networks: 1G to 4G+, 5G Overview

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13:30 – 14:10

- Local Area Network (LAN) Basics
- Ethernet History & Current Implementations
- Class of Service and Quality of Service (CoS & QoS)
- The Internet & The WWW
- What is IP
- Voice over IP & SIP – an example of IP Networking

14:10 – 15:00

- New Fast Broadband Applications
  - HD Video (Streaming & Conferencing)
  - Cloud Based Apps
  - VR, AR
- Cost Saving Ideas
  - Remote Working
  - Mobility
- Putting it all together – The Converged Network

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