

Modern Telecommunications In NZ Explained

COURSE DESCRIPTION:

Smart Phones, Tablets, Ultra Fast Broadband, IPTV on demand, Cloud Computing, Rural Broadband, Fibre Optics, 4G...what does it all mean, and more importantly, how can I make the most of what's available? Do you need some clarity on current telecommunications systems and how the new applications they enable can help you?

Then you need this non-technical, day-long programme. It explains current telecommunications systems like fibre, wireless, 4G, Ethernet, UFB and RBI, The Internet and WorldWide Web. It will provide you with a greater understanding of the language and acronyms and more importantly, what they could do for you and your business.

Delivered in a fun, interactive way with hands-on exercises and a quiz or two!

WHO SHOULD ATTEND:

Management, Administrators, Human Resources, Marketing, Salespeople and others wanting a **non-technical** overview of current telco technologies and applications

Anyone who wants their business or community to make the most of fixed and mobile broadband and the new applications and ways of working/playing it enables. This programme will provide you with a solid understanding of telco technology basics and how it all works together, in simple English.

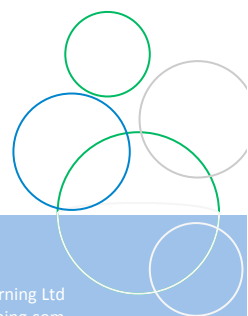
SOME COURSE BENEFITS:

- Understand modern broadband enabled by Fibre, V-DSL and 4G Mobile
- Understand the language and acronyms surrounding the UFB & RBI
- Understand how new applications and new ways of working will lead to efficiencies and productivity gains

COURSE OBJECTIVES:

- To clarify the language & technologies surrounding Fibre Optics Networks
- To understand the drivers for the Ultra Fast & Rural Broadband Networks.
- Understand V-DSL, G-PON, Ethernet and 4G, the technologies used and benefits and limitations
- To understand new IP services and what they mean to us

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CONTENT:

Non Technical Overview of Current Telco Networks & New Applications

Morning

- Terminology Exercise
- Data and Voice explained
- Why Digital?
- Circuits v Packets (physical v virtual)
- Transmission Mediums - Copper, Fibre, Wireless (new v old/aging)
- The aging Local Loop, PSTN, ISDN, x-DSL
- LAN's & WAN's
- A Simple Reference Model
- National Broadband Projects Explained
- The Fibre UFB & Wireless RBI - advantages
- Fibre Optic Technology
- Fibre Optic Networks and Applications for NZ
- Mobile Networks : 1G to 4G, AMPS to LTE & Wi-MAX Overview

Afternoon

- Local Area Network (LAN) Basics
- Ethernet History & Current Implementations
- Class of Service and Quality of Service (CoS & QoS)
- UFB Services, providers and plans.
- The Internet & The WWW
- Internet v4 Protocol Addressing
- IP Version6 – It's purpose & Benefits
- Quality of Service (QoS) in IP Networks
- Guaranteeing Quality in IP Networks
- Voice over IP & SIP – an simple example of IP Networking
- New Fast Broadband Applications
 - HD Video (Streaming & Conferencing)
 - Cloud Based Apps
- Cost Saving Ideas
 - Remote Working
 - Mobility
- Devices
 - Laptops
 - Tablets
 - Phablets
 - Smart Phones
- Case Studies & Discussions
- Putting it all together – The Converged Network

