

# Executive Introduction to Telco In NZ – 2hrs

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## COURSE DESCRIPTION:

With so many choices of provider, service, devices and applications, how do you make an informed decision on the ones that will help you and your Business? Do you need some clarity on current telecommunications systems and how the new applications they enable can help?

Then you need this jargon busting 2hr long Executive level programme. It's a non-technical explanation of current telecommunications systems like fibre, wireless, 4G/LTE, UFB and RBI, do you go Hosted, Cloud based or in-house? This session will provide you with a greater understanding of the language and acronyms surrounding telco services 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:

Executives, Management, Salespeople and others wanting a non-technical overview of current telco technologies and applications & the impact they could have on your business.

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.

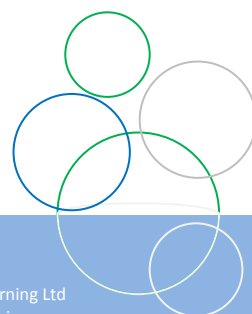
## SOME COURSE BENEFITS:

- 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 copper, fibre and wireless broadband, the technologies used and benefits and limitations of each solution
- To understand new cloud based services and what they mean to us

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## CONTENT:

### Non Technical Overview of Current Telco Networks & New Applications

- Data and Voice explained
- Why Digital?
- Circuits v Packets and the challenge of real-time apps
- Transmission Mediums - Copper, Fibre and Wireless
- The aging Local Loop, PSTN, ISDN & x-DSL
- The Local Area Network – Ethernet and Wi-Fi
- A Simple Reference Model
- National Broadband Projects Explained
- The new Fibre UFB & Wireless RBI - advantages
- Mobile Networks : 1G to 4G, AMPS to LTE & Wi-MAX Overview
- Current LANs
- Class of Service and Quality of Service (CoS & QoS)
- Speed vs. Data Volume
- Latency and its effects on applications
- The Internet & The WWW
- Guaranteeing Quality in IP Networks
- Voice over IP & SIP – an simple example of IP Voice (Internet and Carrier Grade)
- New Fast Broadband Applications
- Cost Saving Ideas
  - Remote Working
  - Mobility
- The VPN – sluggishly secure and costly?
- The effects of some applications on network performance
- Q&A session, discussion

