

Broadband Explained

COURSE AIM:

This course will allow attendees to gain a solid understanding of current copper and wireless broadband technologies. It will position copper, fibre and wireless (802.11 Wi-Fi, 3G & 802.16 Wi-Max) in the New Zealand broadband market, providing attendees with an understanding of what each technology does, the applications it enables and the benefits that it could bring.

COURSE OBJECTIVES:

- To clarify the language surrounding Broadband
- To explain the technologies concerned in simple terms
- To look at the applications enabled by these technologies

COURSE DESCRIPTION:

The growing demand for broadband communications in New Zealand has widely exceeded the expectations of the past and has also changed the requirements for future networks. The copper technologies currently used in the access area may not always give access to the long-haul fibre networks. Wireless access is challenging the fixed world, and applications are becoming more demanding of network performance. This seminar provides an overview of the different access technologies available today, and explores the broadband networks of the future.

FORMAT:

1-day, interactive classroom based
Maximum attendees: 15 per course

CONTENT:

- An Introduction to broadband networks (simplifying the language)
- Copper in the local loop
- PSTN, ISDN & A-DSL
- A-DSL 2 & A-DSL 2+
- Ethernet & ATM as carrier networks
- Fibre optic communications
- Fibre to the Cabinet (FTT-x) & Cabinetisation
- Wi-Fi and 802.11
- Mobile Broadband (3G / UMTS / HSDPA)
- Wi-Max
- Bringing it all together