

# Fibre Optic Fundamentals & Basic Testing

## COURSE AIM:

This course will allow attendees to gain a solid understanding of current fibre optic technologies. It will position fibre in the New Zealand broadband market, providing attendees with an understanding of what the technology does, the applications it enables and the benefits that this could bring.

## COURSE OBJECTIVES:

- To clarify the language surrounding Fibre Optics
- To explain the technology in simple terms
- To look at the applications for this technology

## COURSE DESCRIPTION:

The growing demand for communications bandwidth in telecommunications systems has widely exceeded the expectations of the past and has also changed the requirements for future networks. The newer fibre optics technologies, currently used in the access area and also for long-haul applications, meet these requirements. This seminar provides an overview of the basic fundamentals of fibre optic communications as well as basic measurement techniques for the different optical systems.

## FORMAT:

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

## CONTENT:

- An Introduction to fibre optic systems (simplifying the language)
- Single mode & Multi mode fibres
- Dispersion and loss
- Fibre construction
- Fibre connectors
- Fibre care and cleaning
- Fibre Testing
- OTDR's
- LED's & Lasers
- Basic Measurements
- FTT-x & Fibre Applications