

### Basic Measurement Techniques (IL and ORL)

This half-day course is an abridged version of the FE-1031 course and focuses mainly on the practical aspects of insertion loss (IL) and optical return loss (ORL) testing. Attendees will learn how to measure these parameters using simple test instruments such as a power meter, light source and backreflection meter. After completing this course, participants will have acquired an initial level of hands-on experience and basic manipulation techniques to qualify the loss budget of a fiber-optic link.

#### Content

- › Causes of attenuation in the fiber
- › Causes of reflectance in the fiber
- › Insertion loss measurements using an optical source and a power meter
- › Reflectance measurements using a backreflection meter
- › Reflectance vs. ORL

#### Pre-Requisites

- › Basic comprehension of physics and mathematics

#### Methodology

The training consists mainly of lectures using PowerPoint presentations and demonstrations, but also includes specific hands-on workshop sessions on IL and ORL testing.

#### Documentation

Attendees will receive a binder containing copies of presentations and other handouts.

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