

## Polarization Mode Dispersion Testing

This one-day course provides an overview of general dispersion phenomena occurring in fiber-optic communications, as well as the problems caused specifically by polarization mode dispersion (PMD). The course also describes the internal workings of EXFO's PMD analyzer and explains how to interpret the result obtained with the instrument. Hands-on exercises on PMD analysis and result interpretation are also included in the curriculum.

### Content

- › Dispersion phenomena
- › Basic principles of PMD
- › Causes of PMD in the fiber
- › Effects of PMD on the fiber
- › Different types of dispersion
- › First-order vs. second-order PMD
- › EXFO's PMD measurement method
- › PMD measurements using EXFO's PMD analyzer
- › Result analysis using pass/fail thresholds

### Pre-Requisites

- › Basic comprehension of physics and mathematics
- › EXFO's FE-1031 – Basic Fiber Optics and Loss Testing (IL and ORL) or equivalent

### Methodology

The first part of this course consists of lectures using PowerPoint presentations and demonstrations, while the second part consists of specific hands-on PMD testing exercises and experiments on total PMD measurement, coefficient calculation, pass/fail result analysis using thresholds, and result interpretation.

### Documentation

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

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