

## Chromatic 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 chromatic dispersion (CD). Attendees will learn how to differentiate various types of fiber and how to compensate for CD. The course also describes the internal workings of EXFO's CD analyzer and explains how to interpret the result obtained with the instrument. Hands-on exercises on CD analysis and result interpretation are also included in the curriculum.

### Content

- › Dispersion phenomena
- › Basic principles of CD
- › Causes of CD in the fiber
- › Effects of CD on the fiber
- › CD measurements using EXFO's CD analyzer

### 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 CD 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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