

Introduction to WDM Systems, Optical Spectrum Analyzers (OSA) and In-Band Testing

This one-day course provides an overview of WDM systems and how to test them using an optical spectrum analyzer. The course covers appropriate OSA configurations, critical test parameters and requirements, as well as actual test procedures.

Content

- › WDM systems
- › OSA test software—configuration and use
- › Automated test procedures
- › Examples of common OSA test procedures
- › Critical parameters:
 - › Peak power
 - › Central wavelength
 - › Channel-spacing
 - › Optical signal-to-noise ratio (OSNR)
- › OSA configuration for system qualification
- › Test configuration for WDM component testing
- › EDFA testing
- › In-band testing and true OSNR

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 OSA testing exercises and experiments on critical parameters measurements for WDM systems.

Documentation

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

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