

Fiber Characterization

Fiber Characterization Fundamentals

This two-day instructor-led course focuses on the principles behind building and maintaining high-speed optical networks where key parameters such as polarization mode dispersion and chromatic dispersion must be calculated to evaluate system capabilities and potential upgrades to higher bit rates.

Audience: Those involved with equipment or systems where fiber characterization is needed to ensure proper operation of 10 Gb/s or higher data rates

Prerequisite: Previous experience with fiber optics and some knowledge of OTDR testing

Classroom (1 Day)

- Optical Fiber and Connectors
- Components Overview
- Regeneration
- Optical Multiplexing
- Dispersion and Polarization
- Test Equipment
- The Future

Hands-on (1 Day)

- Build Spans and Test for PMD and CD
- Reflection Testing
- PMD and CD Documentation

OTT Certified Fiber Characterization Engineer (CFCE)

This five-day instructor-led course focuses on mastering the tests required to verify that an infrastructure can support high data rate (10+ Gb/s) applications, Raman amplification, and extended wavelength ranges for CWDM and DWDM systems, as well as those typically required to prove that the fiber will operate properly when dark fiber contracts are signed.

Audience: OSP and network engineers, senior technicians, or designers

Prerequisite: Previous experience with fiber optics and some knowledge of OTDR testing

Classroom and Hands-on Exercises (5 Days)

- Bidirectional Loss Testing
- OTDR Testing
- Documentation and Reporting

- ORL Testing
- CD, PMD and Spectral Attenuation Testing

Certificate

Light Brigade
Certificate of Completion



Early Bird Pricing*



Two-day course \$1100

* See page 17 for more information.

2020 Class Locations

Seattle, WA	April 28-29
Dallas, TX	July 7-8



Certification

OTT Certified Fiber
Characterization Engineer

2020 Class Locations

Dallas, TX	February 10-14
Portland, ME	June 15-19
Seattle, WA	September 14-18
Spartanburg, SC	November 9-13

