

Course Name: Fiber Optic Connectors and Termination

Course Overview:

A review of fiber optic termination solutions emphasizing hands-on practical training with the anaerobic field installed and FAST™ mechanically installed connectors. The course covers basic transmission parameters of fiber and technical demonstrations of proper connector installation techniques.

Course Length: 8 Hours

Who should attend?

- Field Service Technicians
- Field Engineers
- Managers/ Field Supervisors
- Design Engineers
- Managers or Supervisors

Prerequisites: None. Entry level

Customizable Course: Yes

Course Content:

Brief Introduction to Fiber Optics

- Definition of Fiber Optics
- Explain the applications and advantages of fiber optic media

Basic Parameters:

- Define bandwidth
- Parameters in the fiber cabling system which can affect bandwidth
- Define and explain attenuation:
 - Relative to link insertion loss
 - Relative to connector insertion loss
- Dispersion
- Reflectance

Introduction of connector types

- Primary single fiber connectors
- Multi-fiber and small form factor connectors

Field installable and factory-polished connector solutions:

- Demonstrate installation of an anaerobic field installable connector on tight-buffered fiber
- Demonstrate installation of a factory-polished connector pigtail using a fusion splicer



Solutions for installing field-installable connectors

- Heat-cured, UV-cured, and anaerobic epoxy and polish connector solutions
- No-epoxy/no-polish connector solutions
- Comparison of the advantages and disadvantages of various field installable connector solutions

Installation procedures and quality practices for anaerobic connectors

- Demonstrate installation of SC and ST field installable connectors
- Construct SC-SC or SC-ST multimode jumpers on tight-buffered fiber

Evaluation procedures for installed connectors

- Evaluate connector end-face using 100x and 200x scope
 - Evaluate jumper performance using the attenuation test set
 - Demonstrate connector event loss measurement with the OTDR
- Demonstrate use of Visual Fault Locators (VFL) to analyze connectors and pigtails

