



Fiber Optic Cable Emergency Repair And Restoration

Info@VanTekConsulting.net

Call 480-359-7004

Course Description:

Today's fiber optic networks are crucial to current and future bandwidth demands. Fiber optic network expansions and the demand for Fiber To The Home (FTTH) has put a high demand on fiber optic contractors and contract splicing teams meaning providers can no longer rely on these sources for quick response times.

In turn, this shortage requires network providers to formulate response plans and develop their teams to quickly respond and restore the network due to fiber emergencies. To do this efficiently, technicians need the proper training on the cable, closures, and splicing techniques unique to the restoration of services provided by the fiber optic plant.

This class is designed to increase the technician's confidence and competence as well as to provide your team with the skills required to implement a successful response to a fiber cut and preparing them for any emergency restorations.

The Instructors:

Our certified instructors have actual field experience and have faced the same obstacles as your team. Our "Actual Field Experience" gives us the ability to provide course participants with the answers they seek and the skills they need to overcome their daily challenges.

Course Duration: 3 Days
(This includes numerous Hands-On labs)

Target Audience:

Technicians, Installers, Contractors, Engineers, Telecom Managers, or anyone involved in repairing, installing, maintaining fiber optic networks.

Prerequisites:

A basic understanding of telecommunications and basic fiber optic splicing, termination and testing are required prior to taking this course. This subject matter is available in additional VanTek courses.

VanTek Consulting offers a full course catalog to help our customers achieve their goals. Courses range from basic and advanced Copper Testing and Fault Locating to Fiber installation, Splicing, and Testing to Structured Wiring and Networking.

Course Objectives:

Fiber Optic Restoration & Repair

- ◆ Documentation and equipment that should be in place before an outage occurs
- ◆ Test gear used in an emergency to locate and isolate the problem
- ◆ Working environment suitable for a safe restoration
- ◆ Cable and site prep
- ◆ Choosing restoration or permanent repair
- ◆ Using Fusion or Mechanical splicing
- ◆ Splice closure prep for rapid deployment
- ◆ Making an emergency restoration kit
- ◆ Best Practices to minimize time
- ◆ Safety rules
- ◆ Required documentation
- ◆ Creating a restoration and response plan





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Course Equipment:

Course participants are welcome to bring any test equipment they currently use to the training.

This is a value add by including the test equipment they use in the hands-on portions of the training.

VanTek does provide some gear for the labs, but it is always best to get training on what the participants will actually be using in the field

Course Modules

Module I: Fiber Optic Refresher

- ◆ Fiber Systems
- ◆ Safety
- ◆ Connector Cleaning

Module II: Troubleshooting and Fault Isolation

- ◆ Transmitter Issues
- ◆ Receiver Issues
- ◆ Catastrophic Fiber Failures
- ◆ Locating The Fault

Module III: Emergency Restoration

- ◆ Required Materials
- ◆ Recommended Installations
- ◆ Preparation and planning
- ◆ Codes and Safety

Module IV: Testing

- ◆ Power Meter and Light Source
- ◆ Optical Loss Testing
- ◆ Optical Time Domain Reflectometer Setup
- ◆ OTDR Testing and Results

Featured Equipment

- ◆ JDSU (Viavi) Tberd 2000 OTDR
- ◆ Viavi OLP-85 Optical Power Meters
- ◆ Viavi P5000i Inspection Scopes
- ◆ Viavi OLS-35 Light Source
- ◆ Viavi VFL
- ◆ Viavi Live Fiber Identifier
- ◆ INNO View 3 fusion splicers



Customer Required Materials and Tools

- ◆ Participants are encouraged to bring their test meters to class
- ◆ Any company mandated PPE
- ◆ 40' Lengths of 12-144 count fiber
- ◆ Splice cases and hardware
- ◆ Consumables (splice sleeves, wipes, D-Gel, etc.)

VanTek can and will provide a limited number of toolkits and test meters and fusion splicers. It is recommended that the attendees use the materials specified by your company as well as the equipment. This maintains continuity for the attendees from the class to the field.

Hands-On Labs

Labs typically consist of 2-4 member teams per work station.

The Hands On labs typically run 50%-75% of the course.

Black & white manuals are included. Full color manuals are available at an additional charge

