

FIBER – DETAILED TRACK DESCRIPTION

1. Fiber Construction for Outside Plant

Overview:

All network construction starts with high fiber count cables. Keeping track of all the fibers and ensuring good connections and splices is critical to building your network. In this webinar, we will look at the issues that arise when building new plant, branching off old plant and how to ensure you have good end to end continuity, and meet your power goals, documentation and mapping goals for fiber cable construction. What's more, many fiber network owners are using their PON networks to branch off and offer additional P2P services for businesses and wireless providers. Multiple wavelength regimes will exist within the same plant for different services

Highlights will include:

- Introduction to the vulnerabilities and process risks all cable construction teams need to avoid
- Using a high port density OTDR test head, you can accelerate testing and save hundreds of man hours and make MOP up much easier so you can close out your job quickly
- Cable identification life hacks: Using a fiber temperature sensing technique you can identify the right cable to work on and avoid taking down traffic on the wrong cable when working in adjacent plant
- Reporting is a critical part of closing out the job. Learn how to simplify this task and convert leads to cash faster

2. DWDM in Access Networks:

Overview:

Whether it's for new commercial services, 5G Xhaul or a Distributed Access Architecture (DAA) in support of Remote Phy (RPHY), the demand for bandwidth is driving service providers to invest in their fiber networks. As fiber pushes deeper and deeper into the network, technologies that were primarily used in the Core and Metro are now also migrating to the Access. Dense Wave Division Multiplexing (DWDM) is one of those technologies originating in the core in the early 2000's, then migrating to the Metro about a decade later and now entering the Access Network. It provides a way to add multiple virtual lanes to an existing fiber thus increasing the amount of data that can be transmitted over it as well as wavelength routing for distribution.

While DWDM provides a cost-effective, scalable solution for delivering services, the procedures and test equipment are very different than other fiber-based technologies.

In this session we will provide an overview of DWDM, discuss the various stages of deployment and test solutions to ensure success

Highlights will include:

- Review DWDM and its components
- Implement the best practices for installing and maintaining DWDM networks
- Learn how to overcome common testing challenges associated with DWDM networks
- Understand the testing tools required for DWDM installation and maintenance

3. Improving Technician Efficiency

Overview:

In this session we will demonstrate how to manage tech efficiency and improve metrics to attain shorter and fewer service calls. You will hear real life examples on how workflow and flexibility with VIAVI tools will help you meet any challenge and make money by keeping your team on track with accountable process compliance and instant data upload. This webinar goes beyond finding cable faults and breaks. The session includes a live demo on how the VIAVI StrataSync, the VIAVI JobManager and the VIAVI Mobile Tech App works together to streamline the test process.

Highlights will include:

- Improving business profitability
- Installation and Service can be done more effectively and efficiently
- Equipping techs to meet any challenge saves time and money
- Improve compliance with test processes, while streamlining your operation

4. Expand Your Test Capability with HFC & Fiber Monitoring

Overview:

DAA architecture is driving great change, the new DAA headend function like datacenters. As such they need vigilant risk management and optimization to prevent downstream customers and a variety of services from disruption. The session will focus on use cases and value proposition for XPERTrak, ONMSi/SmartOTU.

Highlights will include:

- Overview discussion on solutions: XPERTrak and ONMSi/OTU. Use cases and value props
- XPERTrak offers a complete system for analyzing return path performance, downstream performance at individual CPE, Algorithmic node analysis, and enables the operator to drill down using a variety of analytical tools to see where the problem is and offer a suggested location of the probable cause.
- ONMSi/SmartOTU
 - Fiber fault location in less 5mins: Detect fiber fault before data service is affected
 - Unused fiber monitoring
 - Service Level Agreement (SLA) protection
 - Demarcation between fiber and data transmission fault
 - KPI tracking