



2018 Training Courses

Fiber Optics

This course provides a fundamental understanding of fiber optics and the practical skills required to install and maintain fiber optic networks. This session is dedicated for those new to fiber as well as those looking to enhance their current skills.

This course includes specific skills exercises include fiber and cable preparation, fusion and mechanical splicing, connectorization, cleaning and inspection, OTDR and loss testing.

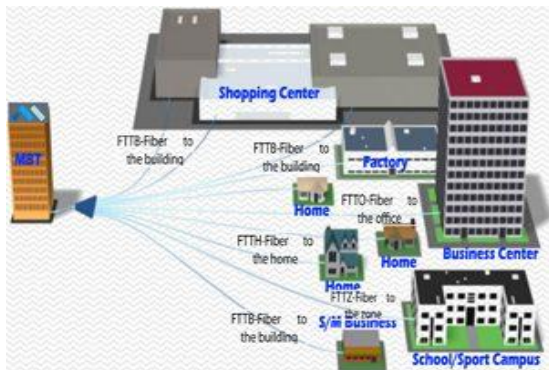
Course Reference	VOP-C-302-P	
Title	Fiber Optics	
Level	Introductory to Intermediate (L1-L2)	
Audience	Field technicians, installers, IT support staff, engineers, field supervisors, OSP staff, maintenance techs, AEs or technical sales staff	
Format	2/4/6 days lecture – Available on VOP E-learning Platform* (special fees)	

Course Outline

1. Introduction to Fiber Optics
2. Fiber Theory
3. Optical Fibers
4. Fiber Optic Cables
5. Fiber Optic Connectors Splicing
6. Fiber and Cable Installation
7. Test Equipment
8. Optical Testing
9. Communication System Basics
10. Loss Budgets

Courses Fees

2 Days	\$800
4 Days	\$1500
6 Days	\$2100



2018 Training Courses

FTTX

This course covers FTTH network field configurations, design benchmarks, and installation parameters for active Ethernet and PON elements. Participants will create their own FTTX network designs in classroom, applying the learned objectives to distributed split, centralized split, home run, and point-to-point systems. This course is based on our VOP tools for dimensioning and optimizing FTTX architectures. The course is intended for outside plant and network engineers who need in-depth skills for designing an effective FTTX network.

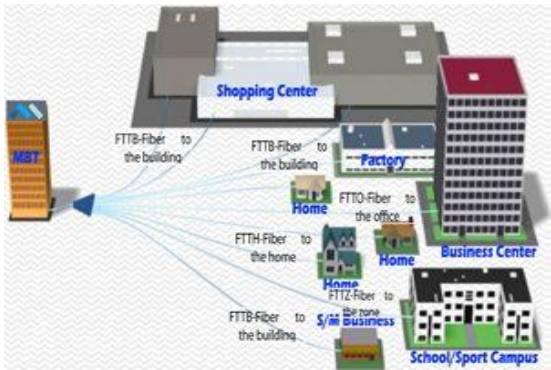
Course Reference	VOP-C-303-P	
Title	FTTX	
Level	Advanced	
Audience	People involved in all aspects of FTTX projects and taking part of the planning and justification process, designing networks, or installing etc.	
Format	4/6/8 days lecture – Available on VOP E-learning Platform* (special fees)	

Course Outline

1. FTTX Methodology
2. Dimensioning FTTX networks
3. Elements of optimization
4. Fiber Theory for FTTX
5. Optical Fiber
6. Optical Cable
7. Termination Options
8. Splitters Panels, Closures, and Cabinets
9. WDM in FTTX Applications
10. Active Devices OLTs and ONTs
11. Loss Budgets and splitting number constraints
12. Cable Installation Techniques
13. Testing FTTX Systems

Courses Fees

4 Days	\$1500
6 Days	\$2100
8 Days	\$2900



2018 Training Courses

FTTX Case Study

This course covers FTTH network field configurations, design benchmarks, and installation parameters for active Ethernet and PON elements. Participants will create their own FTTX network designs in classroom, applying the learned objectives to distributed split, centralized split, home run, and point-to-point systems. This course is based on our VOP tools for dimensioning and optimizing FTTX architectures. The course is intended for outside plant and network engineers who need in-depth skills for designing an effective FTTX network.

Course Reference	VOP-C-304-P	
Title	FTTX Case Study	
Level	Advanced	
Audience	People involved in all aspects of FTTX projects and taking part of the planning and justification process, designing networks, or installing etc.	
Format	4/6/8 days lecture	

Course Outline

This course is based on VOP-C-303-P

1. Global case study
2. Definitions
3. Design and simulations
4. Outputs
5. Recommendations and Validations

Courses Fees

4 Days	\$1500
6 Days	\$2100
8 Days	\$2900



2018 Training Courses

Custom Courses

This dynamic course is developed taking into consideration specific needs and applications. The major benefit is that your staff's time will be spent focused on problems directly related to your company. You will have the ability to pick the objectives of particular importance to your cases. With direct collaboration with our instructors, build your ideal course and determine the length. Courses can be scheduled by considering the working day-time, week-ends, nights....

Course Reference	VOP-C-305-P	
Title	Custom Courses	
Level	Introductory – Intermediate - Advanced	
Audience	Any	
Format	X days lecture (to be defined by the client)	

Course Outline

To assist you in identifying key goals and objectives for your organization. Please visit our website and take time to fill the form rigorously (section Custom Courses). These allow us to tailor a course based on your application and specific staff needs.

Courses Fees

4 Days	\$1500
6 Days	\$2100
8 Days	\$2900