

COURSE DESCRIPTION

COURSE TITLE Fiber Optic Basic Fundamental

COURSE NUMBER PTFS 020

TARGET AUDIENCE

People who has an access to daily cellular telecommunication maintenance and operation activity

PREREQUISITES

Students attending this class must have fundamental electrical and telecommunication knowledge and one year on the-job cellular telecommunication experience.

COURSE DURATION

2 Days

COURSE OUTLINE

Fiber Optic Basic Fundamental

First of all this training will presents structure and charateristics of Fiber Optics. Furthermore it will explain type of fiber optic cable, type of components and accessories in Fiber Communication Systems. This training also explain about safety procedures when working with fiber optics. In practical session, participants will be able doing optical fiber splicing, measure optical fiber connection with OPM and OTDR and knowing types and problems in fiber connection.



Let's collaborate!

PROGRAM AGENDA

Fiber Optic Basic Fundamental

Day	Training Module	Syllabus	Objectives
Day 1 Fiber Optic Training	Session 1 : Introduction to Fiber Optics Session 2 : Components and Accessories Optical in Fiber Communication Systems Session 3 : Type of Fiber Optic Cable Session 4 : Implementation of Safety Procedures with Fiber Optics	 08.00-09.00 : Opening Pre-Test Participant Introduction 09.00-10.00 : Structure of Optical Fiber Light Propagation in Optical Fibers Characteristics of Fiber Optics 10.00-10.15 (Coffee Break) 10.15-12.00 : Light Source Photodetector Optical Accessories 12.00-13.00 (Lunch) 13.00-14.30 : Types of cables based structure The cable type is based on its use Optical Cable Specifications 15.00-15.30 (Coffee Break) 15.30 -17.00 : Cause of the Accident Working with Fiber Optics Safety Procedure on optical fiber splicing Safety Procedure in measurements activity Safety at work at the top of the pile 	 Participants understand structure and charateristics of Fiber Optics. Participants understand type of components and accessories in Fiber Communicatio n Systems. Participants able to define type of fiber optic cable. Participants able to implement safety procedures when working with fiber optics.

PT. Floatway Systems Ruko Citra Mas, Jl. Alternatif Cibubur Cileungsi Km 1,8 Rt.004 Rw 005 Harjamukti, Cimanggis - Depok Phone : (021) 84309690



Let's col	laborate!
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Day	Training Module	Syllabus	Objectives
Day 2 Fiber Optic Training & Practice	Session 5 : Optical Fiber Splicing Session 6 : Measurement of Optical Fiber Communication Systems Practice Session 7 : Optical Fiber Splicing Practice	 09.00-10.00 : Various connection Problems in the optical fiber connection The optical fiber splicing procedure 10.00-10.15 (Coffee Break) 10.15-12.00 : Calculating the link budget in optical fiber communication systems Optical Power Meter OTDR 12.00-13.00 (Lunch) 13.00-14.00 : Fussion splice Use of Fussion Splice 	 Participants understand types and problems in fiber connection. Participants able doing optical fiber splicing. Participants able to measure optical fiber connection with OPM and OTDR.
	Practice Session 8 : Optical Fiber Measurement Practice	15.00-15.30 (Coffee Break) 15.30 -16.30 : • The use of OPM • The use of OTDR	

NOTES

This Course Description is subject to change due to product design changes and individual attendee needs and experience.