

DWDM Overview (TK813)

Prerequisites

Participants must have some technical knowledge in telecommunications, and some basic knowledge in optical transmission principles. Fiber optics basics and OTN basics courses are recommended.

Targetgroups

All personnel starting a sequence of DWDM training, from Planning and Engineering to Management Experts and Service should attend.

Duration

2.0 days

Course content

Introduction

- ☒ DWDM principle
- ☒ description of the Optical Network Elements

Optical technology

- ☒ Attenuation
- ☒ Dispersion Effects
- ☒ Polarization Mode Dispersion
- ☒ Effects of Nonlinear Optics
- ☒ Components of the Optical Network Elements
- ☒ Optical Fibers
- ☒ Optical Multiplexers and Demultiplexers
- ☒ Optical Amplifiers
- ☒ Lasers types
- ☒ Photodetectors
- ☒ Types of Connectors

Basics of DWDM Link Planning

Measurements

- ☒ Reflectometers
- ☒ Polarization Mode Dispersion
- ☒ Power measurement and optical Spectrum