

XTRAN FOR NETWORK DESIGNERS

Course description

- **Target Audience**

This course is only intended for partners of OTN Systems.
The target groups are proposal and project managers who need to design (i.e. plan) XTran-networks.

- **Course Prerequisites**

Basic knowledge of telecommunications (IP and WAN technologies) and electronics.

- **Course Objectives**

After the training, the students should be able to:

- describe the functionality of XTran and more specifically the application of its interface modules;
- position XTran & MPLS-TP technology;
- know and use the main advantages of XTran to develop business in specific market segments.
- design an XTran-network, starting from the requirements and resulting in a Bill of Materials.

For the design of “IP-over-XTran” networks, we do refer to the advanced course “IP Design in XTran networks”.

- **Exercises**

Hands-on training is NOT included.
A demo of an XTran network is included.
Exercises to make BoMs (Bill of Materials) are included.
Case studies of proposals and projects are discussed.

- **Duration**

2 days

Contents

The course “XTran for (Sales) Managers” is part of this curriculum.

- **XTran for (Sales) Managers**

For more detailed information: see the description of this course.

- Introduction into MPLS-TP & XTran
- XTran Components
- Tunnels & Services
- TXCare

- **XTran for Network Designers**

- **Design of an XTran-network**

In this chapter we will explain the workflow to design an XTran-network on the physical layer. Based on customer requirements, a design (hardware & topology) will be proposed.

- **SyncE**

We will first discuss the purpose of SyncE and then how such a requirement can be implemented in an XTran-network.

- **Avoid Single Point of Failures in your design**

- **Priority – Delay – Bandwidth**

We will discuss the different design options for these parameters and how these parameters may influence your design.

- **XTran Dimensioning**

- **Case Studies**