N50/N70/ETS FOR SERVICE ENGINEERS

Course description

- **Target Audience**

  OTN Service Engineers who are responsible for the configuration, daily maintenance and troubleshooting of OTN networks that are based on N50/N70, eventually in combination with ETS.

- **Course Prerequisites**

  Basic knowledge of Ethernet, IP and its protocols is required.

- **Course Objectives**

  After the training, the students will be able to:
  - install and replace the HW components of an N50/N70/ETS-based network;
  - use the OTN Management System (OMS) monitor function to indicate and solve alarms;
  - use the OMS to set up the network database;
  - use the FEM (Front End Manager) to configure Ethernet- and IP-features;
  - install OMS and perform upgrades;
  - perform the OMS backup procedures.

- **Exercises**

  Hands-on training is included.

- **Duration**

  5 days

Contents

- **Introduction into OTN: features, families, technical principles**

  We will start by explaining the key features, terminology and detailed technical principles of the OTN product.

- **N50/N70/ETS – Installation**

  In this part of the course we will explain how to set up a basic N50/N70/ETS network. We will learn how to install the hardware and how the nodes are connected via optical fiber.

- **OMS**

  We will learn how to install OMS and remote OMS Clients. The students will use the OMS to :
  - set up a network database,
  - make backups and reports,
  - analyze the general status of the network,
  - find the data they need to solve problems.

  We will discuss compatibility issues and learn how to perform network upgrades.
  We will explain the functionality of all OMS add-ons.

- **FEM**

  The FEM (Front-End Manager) is used to configure Ethernet- and IP-features. The topics below will be explained and illustrated with exercises.
  - SLAN-concept & services in the OTN-network
  - VLAN
  - Spanning tree options
  - IGMP
  - Routing : VRF, VRRP