XTran for Network Technicians– Course Description

This course is the former 'XTran for Maintenance Engineers', now offered under a new name.

Target Audience

Network Technicians, responsible for hardware installations, module replacements and basic troubleshooting. The course will be customized to align with the customer's installed base.

Course Prerequisites

Basic knowledge of telecommunications and electronics.

Course Objectives

After completing the training, students will be able to:

- **Identify** and understand **the purpose** of the various components within an XTran node.
- **Install and replace** hardware components in a network with XTran nodes.
- **Utilize TXCare**, the network management system, to retrieve and analyze network status information.
- **Utilize TXCare's monitoring functions** to identify and resolve hardware-related alarms.

Exercises

Hands-on training is included.

Duration

2 days

Content

Remark: The course "XTran for Field Technicians" is part of this curriculum.

The Basics

- **MPLS-TP** is briefly introduced as the ideal technology for an OT network, while **XTran** – developed by Belden – is presented as the optimal solution.
- We examine the various **hardware components in XTran**. After setting up a small network using essential components, we explore additional interface modules that may be present in your network.
- Students will learn the main applications in **TXCare** and use it to retrieve and analyze information about hardware elements in the network (such as optical levels), with practical exercises included.
- When available, we'll have a look at the **customer's installation** to familiarize the audience with their own network.

Modules and Connections

- For each Interface Module, we will review the **connection of end user devices** to the IFM ports.

XTran OAM

- This section covers **installation and replacement procedures** for various hardware components, with students gaining hands-on experience.
- We will discuss how **alarm and fault conditions** are displayed in TXCare, and demonstrate level-1 **troubleshooting** techniques using TXCare and the hardware information. Students will practice these skills.

Belden Solutions NV – Industrielaan 17b – 2250 Olen – Belgium
www.otnsystems.com – otn.training@belden.com