

Rail Family Classic Software

Layer 2 - Theory and Practice (CP1)



TRAINING FLYER

The extensive range of Hirschmann switches enables a broad spectrum of applications for both large and small networks. Despite the simple installation procedure, these devices require expert selection, commissioning, and supervision, so that resilient functionality can be achieved under even the most extreme of industrial conditions.

Target Group

Product training course for System Engineers, Network Designers and Support Technicians.

Prerequisites

An understanding of Ethernet and TCP/IP, for example “Industrial Ethernet (CT1)” and “Industrial Networking (CT2)” is required.

If available, the participant should bring a laptop with Ethernet connection and an operating system CD. Administrator rights are required.

Objective

In a professional environment the participants receive in-depth knowledge about the OpenRail, OpenMICE, MACH, and OCTOPUS Layer 2 functionality. This includes installation, commissioning, and supervision

The training is part theory and part practice. The necessary knowledge about functions and deployment possibilities of the products are taught in individual theory blocks. Each block is followed by practical exercises, designed to familiarize the participants with the devices through first-hand experience.

Languages: CP1e English, CP1d German

Duration: 3 Days

Schedule / Location / Price:

www.belden.com/resources/training

Recommended for the Hirschmann Industrial Rail Specialist certification examination.

Seminar Content

Introduction

- Overview of Hirschmann products
- The Platform Concept

Device Properties

- Form factor
- Temperature ranges
- Power supplies
- Certifications

Basic Settings

- Firmware management
- Configuration management

Switching

- Port configuration
- Multicast control
- VLANs

Redundancy

- HIPER Ring
- MRP
- Subrings
- Rapid Spanning Tree
- Multiple Spanning Tree
- Link Aggregation

Diagnostics

- Port Mirroring
- Device status
- Topology Discovery
- Configuration check
- Event log

Security

- Port Security
- Authentication (802.1x)

Advanced

- DHCP Relay and Server
- Command Line Interface