

## HIRSCHMANN TRAINING

# MISSION CRITICAL INDUSTRIAL ETHERNET FUNDAMENTALS AND BEST PRACTICES



This 1-day course addresses the fundamentals and best practices in deploying industrial Ethernet networks, with focus on reliability and redundancy, security, future proofing, and reducing the total cost of infrastructure ownership.

**For a limited time, all attendees will receive Hirschmann's GECKO 8TX Lite Managed Switch.** The GECKO Lite Managed Switch provides a cost-effective solution to integrators seeking to employ managed switches for security, diagnostic and redundancy function.

## WHO SHOULD ATTEND

This training course is suitable for Design Engineers or Consultants, Service and Maintenance Technicians, System Integrators/Installers/Network Engineers and Network owners and operators.

## PRE-REQUISITES

No previous knowledge of the subject is required.

**NB: All attendees must bring a personal laptop on the day.**

## OBJECTIVE

Participants will gain a basic understanding of Industrial Ethernet, and learn the best practice in deploying these networks.

\*Attendees will receive 1 Hirschmann Gecko 8TX Managed Switch at the conclusion of training. Maximum 2 units per organisation. While stocks last. Control Logic reserves the right to alter or amend the promotion at its discretion.

**BONUS!\***  
**Managed Switch**



1 day | 9.00 am to 4.30 pm



\$595 ex. per person

NB: Minimum class number must be attained before classes can commence.

## SEMINAR CONTENT

### » Commercial ethernet

### » Critical infrastructure/Industrial ethernet

### » Detailed generic case study

- Green field design process
- Physical cabling and logical design
- Addressing
- Network segregation - in Layer 2 and 3
- Equipment selection
- Network redundancy for high availability
- Cross functional disciplines

### » Provision of design and implementations tools

### » Q&A Session

### » Common topics addressed

- I need to design a critical Ethernet network – Where do I start?
- Is there really a lot of difference between industrial vs enterprise/office Ethernet?
- OSI 7 layer model
- Why is it relevant and how do I use it practically?
- Do I use copper or fibre? What are the different cables and connectors available?
- What is an IP address or MAC address?
- How are they related?
- Star, Daisy Chain, Ring or Mesh topologies – Which is best and why?
- How do I segregate a network correctly in layer 2 and 3?
- What is a redundancy protocol?
- How do I measure real failover recovery times?
- Basic security measures to implement
- What are the best practices of successful local and global installations?



#### OTHER COURSES

INDUSTRIAL  
ETHERNET (CT1)

INDUSTRIAL  
NETWORKING (CT2)

INDUSTRIAL  
ROUTING (CT3)

HIRSCHMANN  
OPERATING SYSTEM  
- HIOS LAYER 2  
SOFTWARE (HIOSL2)

NETWORK  
MANAGEMENT WITH  
INDUSTRIAL HiVision  
(CP2)

HIRSCHMANN  
OPERATING SYSTEM  
- HIOS LAYER 3  
SOFTWARE (HIOSL3)