

# ***Training EtherCAT Development***



## **Agenda**

### **1. Day**

- Basics and compare of Industrial Ethernet
- Introduction into EtherCAT
- EtherCAT Stack

pause

- Ethernet Frame Structure
- EtherCAT Datagram Structure
- Analysis with WhireShark

lunch

- ESC Register Architecture
- Procedure Handling
- EEPROM Interface
- EtherCAT State Management

pause

- EtherCAT Commands
- Logical and physical addressing scheme

# **Training**

## ***EtherCAT Development***



### **2.Tag**

- EtherCAT and determinism
- FMMU management
- SYNC management

pause

- Mailbox communication
- COE and PDO assignment

lunch

- Distributed Clock
- Error Management

pause

- Configuration and ESI files
- EtherCAT Safety