

Cybersec & Safety Partners

THE CAN BUS

Available in-person or remotely (Distance learning)

Туре	Reference	Duration	Price HT
INTER	1.01.03.0001	2 days (14 h)	1390€
INTRA	2.01.03.0001	2 days (14 h)	3980 €*
* flat rate for up to 6 participants			

TRAINING DESCRIPTION

With over 20 years of experience in the CAN field, ISIT offers a training course based on the theory of the CAN protocol, hardware, and associated protocol layers to help you understand and quickly implement the CAN (Controller Area Network) fieldbus.

LEARNING OBJECTIVES

At the end of the training, the participant will be able to:

- Understand the fundamentals of the CAN bus and draw analogies between the CAN bus and application layers using the OSI model
- Understand the structure of CAN frames (2.0A, 2.0B, FD)
- Grasp the implementation of CAN networks/devices
- Understand the integration with application layers (standardized or proprietary)

PROGRAM

- Introduction to CAN Bus
- CAN protocol (ISO 11898-1)

CAN 2.0A Frame structure Stuffing / arbitration mechanism Errors Bus speed (Bit Timing) CAN 2.0B - Differences CAN FD - Evolutions

- Physical Layers (LS/HS/FD) Topologies Medias Physical signals
- CAN Components
 Controllers
 Transceivers

Application Layer protocols
 CANopen
 DeviceNet
 J1939
 ISO-TP

USEFUL INFORMATION

Target Audience

This course is intended for project managers, engineers, and technicians who may be required to initiate, supervise, or contribute to the development of CAN-based applications, as well as individuals involved in the management and operation of systems based on CAN networks.

Prerequisites

Basic knowledge of fieldbus networks and industrial computing.

Teaching, Technical and Supervisory Resources

A digital training manual is provided to each participant. The session's teaching plan outlines the methods used.

Trainee Monitoring Methods

Entry questionnaire, mid-course quiz, final questionnaire, and a satisfaction survey.

Access Timeframe

Groups are organized based on demand, with a maximum lead time of 4 weeks before the session starts.

Disability Accessibility

Our training offer is accessible to all. If you have a disability that requires specific accommodations, you may contact our Disability Coordinator at: Phone: +33 5 61 30 69 00 Email: formation@isit.fr Multiple training formats are available — please contact us.

Several training formats available, please contact