

Goal

The goal of this training is to offer the comprehension of DLMS/COSEM, its architecture, its data exchange protocol and the underlying data modeling.

This training duration is 1 day or 1.5 day, depending on the attendees background.

One training session may accept up to 10 attendees.

Training content

The training is organized in three parts :

Smart Metering using DLMS/COSEM (1h-1h30)

■ History

From DLMS to COSEM, with IEC 61334 and IEC 62056

■ Current standard

Presentation of the DLMS UA books (Bluebook, Greenbook, Yellowbook, etc.)

■ Link with the Smart Metering project specification

Use of DLMS/COSEM in Smart Metering projects

Link with the PLC requirements

Link with the meters specifications

Architecture and data exchange protocol (3-4h)

■ Architecture

DLMS/COSEM server and client architecture

DLMS/COSEM communication profiles

■ COSEM services

Applicative session management

Data access (LN and SN)

Security

■ Link with the Smart Metering project specification

DLMS/COSEM architecture used in Smart Metering projects

DLMS/COSEM services used in Smart Metering projects

■ Practical work

Encoding and decoding of DLMS/COSEM frames

Data model (3-4h)

■ Principle of DLMS/COSEM data model

How it works

Bluebook overview

■ Object classes

How to build a DLMS/COSEM object

Most frequently used classes

■ Link with OBIS

OBIS rules for object identification

■ Link with Smart Metering data model

Smart Metering data model

Link with DLMS/COSEM data model

■ Practical work

Creating DLMS/COSEM objects

Contact us

For further information about this training, please contact: olivier.genest@trialog.com