

## Goal

The goal of our EM-100 training is to provide you with an advanced understanding of the communication between EV and EVSE in terms of ISO 15118 / DIN 70121 standards. Both high level communication (ISO 15118-2 & ISO 15118-20) and Low level communication (ISO 15118-3 & IEC 61851-1) will be considered. This will give you all the keys to develop, debug, validate or use your CCS setup.

This training duration is 1.5 days.

Each training session is organised on demand and can be done online or on-site.

One training session may accept up to 10 attendees.

## Training content

The training is typically organized in four parts and can be adapted and extended to your specific needs:

### **Workshop 1: General overview (2h)**

#### ■ **Context and perimeter**

Presentation of the standard and its future versions  
Actors and roles in the e-mobility ecosystem

#### ■ **Use cases**

Reference use cases based on ISO 15118-1

#### ■ **Deployment**

Overview of ISO 15118 deployment over the World

### **Workshop 2: High layer communication (3h)**

#### ■ **Presentation of ISO 15118-2 applicative messaging**

Messaging and state machine based on ISO 15118-2

#### ■ **Focus Cybersecurity**

TLS, Plug&Charge and PKI architecture

#### ■ **Focus SmartCharging**

#### ■ **Focus Value-Added-Services**

### **Workshop 3: Low layer communication (2h)**

#### ■ **Presentation of ISO 15118-3**

HPGP Modem interfacing, ISO 15118-3 SLAC and primitives  
PSD measurements process

### **Workshop 4: High layer communication (3h)**

#### ■ **Presentation of ISO 15118-20**

What is new and what is different in ISO 15118-20

#### ■ **Focus Cybersecurity**

Impacts of ISO 15118-20 on cybersecurity

## Contact us

For further information about this training, please contact: [emobilitysales@trialog.com](mailto:emobilitysales@trialog.com)