

## Goal

The main goal of this training is to offer a good comprehension of the main mechanisms of G3-PLC technology and its integration into a G3-PLC based system. It also covers G3-PLC security and shows some generic principles of PLC technologies.

This training duration is 1.5 days.

An optional module of 0.5 days is also available to offer a comprehension of the main mechanisms of G3-Hybrid technology.

One training session may accept up to 10 attendees.

## Training content

The training is organized in two parts + an optional part :

### G3-PLC Overview and theoretical basis (~2-3h)

#### ■ Overview of G3-PLC

- G3-PLC features
- G3-PLC communication stack

#### ■ Theoretical basis

- PLC principle
- Communication stack principle
- Description of the generic communication mechanisms

### G3-PLC communication protocol (~7-8h)

#### ■ Overview

- Layer-by-layer G3-PLC communication stack

#### ■ Physical layer

- Main principles
- Mechanisms description

#### ■ MAC layer

- Main principles
- Mechanisms description

#### ■ Adaptation layer

- Main principles
- Mechanisms description

#### ■ IPv6 and UDP layers

- Main principles

#### ■ G3-PLC security

- Reminder regarding communication protocol security
- Choice and implementation in G3-PLC

### Optional: G3-Hybrid communication protocol (~4h)

#### ■ Overview

- Addition to G3-PLC communication stack

#### ■ RF Physical layer

- Main principles
- Mechanisms description

#### ■ RF MAC layer

- Main principles
- Mechanisms description

#### ■ Hybrid abstraction layer

- Main principles
- Mechanisms description

## Contact us

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