

IEC 61850 training course for utilities

KEMA Academy



Course summary

IEC 61850 is the current international standard used for electrical grid data communication and electrical substation modeling. It is optimized for efficient and reliable transfer of process data and commands within and between Intelligent Electronic Devices (IEDs) and substations. IEC 61850 has been designed for use over a (high-speed) data network.

KEMA Academy invites you to attend our two-day training course, which has been developed to give professionals in the utility industry a detailed understanding of IEC 61850. Attending this course with our leading experts will give you the knowledge you need regarding the capabilities and benefits of IEC 61850 in relation to substation automation and further recent developments in this field such as its use in IEDs for deployment in smart grid applications.

Target group

This course is designed for managers, consultants and technical advisors responsible for decision making, long-term strategy, asset management and cost reduction in the context of substation automation and smart grid applications, as well as the supporting operational telecoms infrastructure within and outside the substation.

Course information

The course focuses on the functionality and features of the IEC 61850 communication protocol. Participants will learn about the objective, scope, capabilities, benefits and restrictions of the IEC 61850 standards. Moreover, the course provides a basis for discussing IEC 61850 with suppliers, consultants and other parties and for structuring the introduction of IEC 61850 to your organization. New developments and practical experiences from IEC 61850 implementations are also covered.

Course outline

The course provides you with the answers to many questions - What documents are relevant? What are the background to and objectives of IEC 61850? How to set-up the substation network? What kind of architecture is best for me? Trends and developments regarding security and connectivity. How to engineer solutions and manage different configurations and firmware versions? How can you benefit from IEC 61850 in your organization?

The course introduces you to the fundamental issues that shape decision-making. Latest developments, practical experiences, pitfalls and guidelines are part of the program. We will provide you with methodology and necessary steps for getting your organization ready for the IEC 61850 standard.

Location

The course will be held at an external training location in Arnhem, The Netherlands.

About KEMA

KEMA is the leading company in independent testing, certification and consultancy for standard communication protocols used in the utility industry. KEMA has already given numerous training courses to both vendors and utilities. KEMA is actively involved in the IEC working groups and has detailed knowledge of and expertise with IEC protocols. Participants will benefit from this knowledge during our training courses.

In-company and customized training courses

At the client's request KEMA can also provide in-company and customized training courses. The course can then, for example, deal with actual cases from your business operations, or future scenarios sketched out by you. We are flexible in this.

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