Elevora
Global Training

COURSE BROCHURE

Substation Automation (IEC 61850)

Electrical & Instrumentation

Rising demand 2028

Code	Duration	Formats	Language	Certificate
EI-109	**5 or 10 days**	**Classroom, live online, in-house, blended**	**English or Arabic**	**Certificate of completion**

A practical electrical and instrumentation course covering substation automation architecture, IEC 61850 data models and GOOSE and sampled values. Run as a 5-day core or 10-day extended programme, in 16 cities, live online or in-house, and fully customisable for your team.

About this course

Substation Automation (IEC 61850) gives delegates a structured, practical understanding of substation automation architecture and IEC 61850 data models, then builds the skills to apply GOOSE and sampled values, engineering and configuration and testing in real work. Sessions are led by practitioners with at least 15 years in the field.

What you will learn

- Substation automation architecture
- IEC 61850 data models
- GOOSE and sampled values
- Engineering and configuration
- Testing

Who should attend

Electrical, instrumentation and control engineers, technicians and supervisors.

5-day course outline

Day 1	**Substation automation architecture**	Concepts, standards and terminology, with a diagnostic exercise to baseline the group.
Day 2	**IEC 61850 data models**	Methods and tools explained step by step, with worked examples from real operations.
Day 3	**GOOSE and sampled values**	Hands-on practice in small groups using realistic data, cases and templates.
Day 4	**Engineering and configuration**	Case studies of successes and failures, and how to apply the lessons in your organisation.
Day 5	**Testing**	Integration exercise, final knowledge check and a personal action plan.

10-day extended programme

Includes the full 5-day outline, plus a second week of applied work:

Day 6	**Applied workshop: Substation automation architecture** — Deeper practice with your own data or site examples.
Day 7	**Applied workshop: IEC 61850 data models and GOOSE and sampled values** — Group exercises that combine methods from week one.
Day 8	**Field case study: Engineering and configuration** — A detailed industry case worked through from start to finish.
Day 9	**Advanced practice: Testing** — Tools, templates and checklists to take back to work.
Day 10	**Assessed project and presentation** — Each delegate presents an improvement plan and completes the final assessment.

Upcoming classroom dates

More dates, cities and live online sessions on request.

Dates	City	Length	Fee per delegate
16 Nov 2026 to 20 Nov 2026	Istanbul	5 days	**$2,450**
7 Dec 2026 to 11 Dec 2026	Istanbul	5 days	**$2,450**
11 Jan 2027 to 22 Jan 2027	Amsterdam	10 days	**$6,250**
21 Feb 2027 to 25 Feb 2027	Cairo	5 days	**$2,450**
8 Mar 2027 to 12 Mar 2027	Dubai	5 days	**$2,450**

Fees per delegate (2026 to 2027)

Format	5 days	10 days
Classroom: Dubai, Istanbul, Cairo, Kuala Lumpur	**$2,450**	**$4,450**
Classroom: London, Europe, Singapore	**$3,450**	**$6,250**
Live online	**$1,450**	**$2,650**
In-house, group of up to 15	**From $12,900**	**From $23,500**

Classroom fees include tuition, materials, lunch and refreshments, and a certificate. 10% group saving for 3 delegates, 15% for 5 or more.

Tailored to your team

Change the level, language, length (1 to 20 days) and format, add topics from other courses or entirely new topics, and include your own case studies, site visits or exam preparation. Build it online for an instant indicative fee.

Register or request an in-house proposal

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