Technical training
at Alstom Grid Technical Institute
Technical Institute
The Alstom Grid training centre

Power up your knowledge
Let the Grid experts train you!

Our Technical Institute offers a full range of training in electrical safety, operation & maintenance of our power equipment, protection & control and network management solutions, near your location. These courses which encompass all aspects of electricity from fundamentals to in-depth equipment knowledge are based on several value adding pillars:

EXPERIENCE from the electrical network and equipment experts. We have over 30 years of training experience in every segment of electricity transmission, network management, substation technologies, on our new and legacy products and solutions. We are continually adding to our knowledge base!

AVAILABILITY up to 24/7. Our e-learning modules with tutor support can be used on-line at any time, anywhere. In addition, with 16 training centres located in our manufacturing sites around the world, we offer the proximity and convenience you expect.

TECHNICAL EXPERTISE with 160 experienced trainers. Our team combines product development, services, maintenance or engineering experience with technical expertise, proven teaching skills and a commitment to knowledge transfer. They accompany trainees in the classroom, in the factory, at your site and on-line.

CUSTOMISED TRAINING to fit your needs and infrastructure. With more than 200 training courses in different languages, we offer a wide portfolio within which you will find the courses adapted to your trainee’s level of knowledge (operators, managers, engineers ...) and objectives. If not, you can rely on Technical Institute to customise it for you!

COMPREHENSIVE OFFERS that let you choose what works best for you: tutored e-learning, modular training, software training, competency development programmes or education partnerships.

UP TO DATE course content and equipment. They are continually revised to reflect the latest technologies and local regulatory standards.
Technical Institute

Your ally for operational excellence.

Training matters. It’s the key towards motivating staff to maintain equipment for peak performance in a safe environment. Gaining hands-on experience and enhancing technical skills add long-term value to business and career. You can rely on Alstom Grid technical expertise to support your team’s development.

At Alstom Grid, we are committed to transferring knowledge and expertise – to offering our experience as industry leader in electricity transmission, power electronics and network solutions at the benefit of your performance.

Alstom Grid Technical Institute offers a full range of training options encompassing every aspect of high-voltage electricity: electrical grid safety, equipment operations and maintenance, protection and control, as well as network management, are all part of a targeted, comprehensive programme of over 200 courses.

Our expert trainers build confidence while sharing skills and experience. You benefit from access to the latest in technology and personalised, innovative teaching. You earn the competitive edge you need to succeed.

Alstom Grid Technical Institute covers the entire scope of electrical substation and network needs:

**Invest in excellence**

Training is the most efficient tool to develop know-how and enhance employees performance.

"Excellence is an art reached by training and habituation. We are what we repeatedly do. Excellence, then, is not an act but a habit."

Source: Aristotle
Tutored e-learning

Alstom Grid Technical Institute tutored e-learning offers the best of two training worlds: on-line access that optimises time, costs and logistics, combined with the support of experienced trainers. Our tutors provide immediate feedback, answering your questions and guiding you through the programme for guaranteed knowledge transfer.

**Cost effective**
It is a flexible system designed to target your needs. You decide when and where to train without any additional cost. For maximum value, use e-learning modules before, during or after classroom training to reach the required level of knowledge and reinforce learning.

**Complete on-line modules portfolio**
We offer over 60 learning modules in Power Transmission and Distribution, HVDC, Automation, Power Quality and Electrical Risk Prevention. Course modules enable you to refresh your knowledge and know-how anytime, anywhere at your own pace.

The Alstom Grid Technical Institute offers three levels of e-learning to provide you with the support and training that suit your needs best.

**Light Programme**
A conference call with a tutor launches the process. He/she will listen to and evaluate your needs to define the right learning path.

**Guided Programme**
The Light programme plus additional guidance. Your tutor will follow-up on progress, answer questions by e-mail, fine tune the learning path and send a periodic activity report.

**Coached Programme**
Light plus Guided plus a conference call with a technical expert consultant for a complete debriefing. Still have questions? The expert will guide you to other resources and training options.

**Tutoring for best results**
With tutoring, more than 93% of trainees successfully complete the curriculum! Without tutoring, less than 15% of trainees connect to the e-learning platform.

Source: Alstom Grid Technical Institute study 2010
Modular training

Expert knowledge. Hands-on experience.

Our core curriculum includes over 200 training modules with an emphasis on practice. The benefits of training on real equipment are instantaneous. In small groups, trainees learn both theory and practice, the “why” and the “how-to.”

Our trainers share their know-how and field experience through demonstrations on dedicated equipment located in our Technical Institutes and 3D modelling. Courses include training dedicated documents and the possibility of follow-up with e-learning modules.

Over one to five days depending on the topic, trainees get in-depth, hands-on instruction and the opportunity to practice their acquired know-how.

Courses can be carried out in our Technical Institute centres or at the customer site.

Subjects cover:
- Electrical risk prevention
- HVDC & FACTS
- Smart Grid
- AIS & GIS high voltage switchgear
- Power transformers
- Instrument transformers
- Protection & control systems

Real products for hands-on training:
- GIS bays: F35 132 kV, B105 220 kV, T155 400 kV and various cross sectional modules with live parts
- AIS poles: GL312 145 kV, GL314 245 kV, GL316 420 kV
- FK breaker operating spring mechanism

Software training

Learn from the automation solutions market leader.

The Technical Institute offers over 100 courses including our e-terra™ suite of network and distribution management systems, energy and market management, plus telecommunications.

For upgrades, add-on or new technology software, we have the training tools you need both in-house and on-line including: sandbox demo platforms, virtual classrooms, on-line seminars and in-lab experience.

Our training laboratories are equipped with the latest digital screens, telecom and remote terminal unit (RTU) equipment.

We cover the latest developments in Smart Grid, cyber security and the integration of renewable energy sources.

Software modules include:
- Network management,
- Energy management,
- Telecommunication solutions.

Focus on knowlege and know-how
- Standardised and proven technical content
- Training on real equipment led by field-experienced trainers
- Certified delivery options
- Customised training
- Complete curriculum

- Disconnectors centre and vertical break type
- Current and capacitor voltage transformer
- Bushing 66 kV
- Transformer tap changers
- Micom relays and test kits

Your voice counts

After each course, trainees and their managers complete a survey to evaluate not only their satisfaction but also the main topic of acquired knowledge. This customer feedback helps us to improve our courses in terms of content, rhythm and balance between theory and practice.
Competence development programme

Customer-specific. Excellence through certification on your equipment.

Alstom Grid Technical Institute is committed to your success. Our intensive, customer-specific Competence Development programme complies with the highest standards of safety and operational excellence.

It is the ideal solution for companies where there has been growth or restructuring and a new group of employees must acquire technical skills in a short period of time, or for electricity intensive industries, where electricity management is not the core business.

**Tailored to your specific needs**

It is an extremely in-depth programme, giving you the support you need to maintain your installation in optimum operating condition. And since it is designed to train your people to your required skills level, it also serves to boost your employees’ career development, allowing them to become certified technical leaders.

While training can involve time spent at an Alstom Grid Technical Institute, it focuses on hands-on application training at your site. It begins and ends with skills assessment. Evaluations are essential to understanding the depth of knowledge transfer and the teaching programme required to best fulfil your needs.

After successful completion of the programme and final assessment, a competence certificate is awarded to the participant. The certificate is the guarantee of skills acquisition and its continued validity is ensured by scheduled refresher courses and evaluations.

**Education partnership**

Building the future. Sharing experience.

What if Alstom Grid Technical Institute were to set up a campus at your company? Based on long term agreements, we can support your own training centre or set up a campus at your company.

Our expert trainers will help you to strengthen specific areas of knowledge, fill new requirements and broaden your training portfolio. We will work side-by-side with your teams to reinforce skills levels and gain new competences.

**A measured result**

Our training methodology continues through to the end and culminates in a structured evaluation with on-line quiz and off-line assessments, face to face interviews and hands-on tests. This proven process brings a clear competence picture and measurable results.
A world class network of Technical Institutes
Animated by experienced trainers.

Benefit from more!
Our Technical Institutes, organised as competent centres of excellence by topic, are located at our manufacturing sites to benefit from a factory visit.
Our facilities own real size equipment, “sandbox” for hands-on training, modern and fully equipped training rooms.
Each training session is detailed in clear and comprehensive documentation.

Connect and play with our Grid e-learning discovery activities
www.alstom.com/grid/products-and-services/technical-training/e-learning

Download catalogs
www.alstom.com/grid/solutions/technical-training

For any requests, please contact us at
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