

Nexans

TRAINING CENTRES AND SERVICES

2023



NEXANS

ALL TRAINING COURSES ARE BESPOKE AND CAN BE ADAPTED TO YOUR SPECIFIC REQUIREMENTS.

Complete range of cable accessories

Nexans is the leading European specialized designer, manufacturer and distributor of power cable accessories for low, medium and high voltage.

For over 50 years, Nexans Power Accessories provides a complete range of cable accessories: GPH® ferrules and lugs, EUROMOLD® pre-molded connectors, terminations and joints for cables; epoxy bushings for transformers, switches and other equipment for voltage classes from 6 up to 72.5 kV.

Training programs

Nexans provides theoretical and practical training programs for LV, MV & HV Cable supplies. As a global leader in advanced cabling and connectivity solutions, Nexans is electrifying the future through an extensive range of best-in-class products and innovative services. For over 120 years, innovation has been the company's hallmark, enabling Nexans to drive a safer, smarter and more efficient future together with its customers.

Electrification is in Nexans DNA

Today, the Nexans Group is committed to facilitating energy transition and supporting the exponential growth of power needs by empowering its customers in four main



business areas:

Power Generation & Transmission (offshore/onshore wind farms, solar farms, subsea interconnections, land high voltage), Power Distribution (utilities, smart grids, superconductivity, power accessories), Power Usage (Buildings, e-mobility), and Industry & Solutions (transportation, Oil & Gas, automation and other market segments).

Project Risk Mitigation



Adjustable training frames



Open class room



AC voltage testing up to 200 kV



High-end partial discharge testing equipment



Installation frames for T-connectors up to 72.5 kV



Risk - Human Error

Nexans maintains the highest standards on quality and performance for its cables and accessories to ensure the best possible service lifetime of our customer's network.

All our products are subject to routine tests, like AC-withstand and partial discharge, prior to leaving our plants. We understand the importance of giving our customers a stable and infallible product that will last for decades. We make sure that our products can live up to those expectations.

When correctly installed the service lifetime of our accessories can go up to 50 years. Some of the EUROMOLD accessories launched 40 years ago are still on catalogue, and well sold. Most of these products being recognised as world references in terms of quality, technicity and durability.



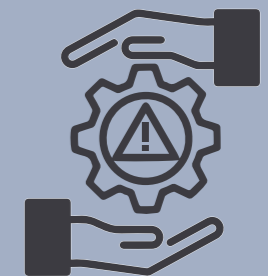
Risk Reduction

Installation training up to 72.5 kV

To mitigate the risk of human error during the installation of any accessory, it is important our customers have qualified technicians working on their network.

It is critical that those technicians can provide the right credentials showing their competency in installing cable accessories.

Nexans Power Accessories is able to provide high standard competency installation courses at our training centres or on customer's site where applicable.



The weakest link

Yet, the weakest link in the chain exists where the accessory will meet the cable, installed by human interface. So it is important that the installation is performed with great professionalism, knowledge and accuracy, respecting the rules of good craftsmanship.

Such robust and infallible installation skills can only be accomplished by well trained and certified technicians at our facilities. We assure that the trainee will benefit highly from our course modules.

Repair and other claims

The quality lies 100% within the skillset of the operator on site. Poor workmanship will cost you 1000's of €'s or \$'s in loss of revenue, time and cost to repair and other direct and indirect claims from your customer(s).

That's where our training facilities come in to place. With comprehensive training to help reduce the potential for failures to the minimum.



People trained in 2022:

2,391



Risk reduction rate:

58% (*)



Customer satisfaction:

97%

(*): Reduction of failures in % that occurred on the average DNO network after that the technicians have successfully completed the required training courses.

Our training facilities. How does a training look like?



Nexans Courses

Our training centres are fully equipped to provide practical and theoretical training for jointers and engineers on all aspects of LV, MV & LHV cable accessories.

Courses cover various cable constructions, cable preparation plus the installation of heat-shrink/cold-shrink and slip-on terminations, separable connectors and joints.

Where applicable, products installed by our attendees are tested for AC withstand and partial discharge. Upon successful completion of the test, the candidate will be presented with a 3 part certificate of competency.

Nexans Power Accessories is fully committed to raising the standards throughout the different countries where we are present for cable accessory installation.



Program up to 72.5 kV

All our different training modules consist of 3 different parts:



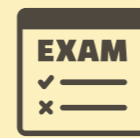
Theoretical Training

To explain the why and how of the function of each component of the accessory.



Practical Training

To instruct how to prepare your cable and install the accessory correctly.



Examination

To verify objectively the workmanship of the trainee.



Course Modules



Day Modules

36 kV Competency Course

No cable preparation training will be provided.

If suitable qualified and experienced, the candidate will be accepted onto the course.

5 Day Modules

11 kV or 36 kV

Full Cable Preparation Competency Course

Depending on previous experience/qualification.

High Voltage

72.5 kV Competency Course

If suitable qualified and experienced, the candidate will be accepted onto the course.

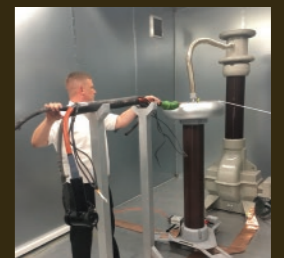
Bespoke Modules

Each individual course can be designed to meet the specific requirements of our clients

Please get in touch with your nearest training centre to discuss and define your specific needs.

Certification 100% objectivity

To ensure the objectivity of most of our training courses, each sample made by the trainee will be electrically tested as part of our examination process.



Electrical tests performed

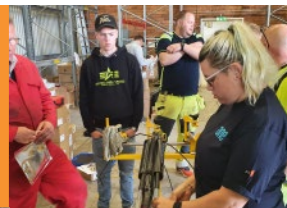
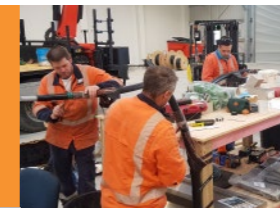
AC withstand at 2.5 U₀ pass: no flashover

Partial discharge at 1.5 U₀ pass: value < 10 PC

Nexans training centres of excellence



- ① United Kingdom up to 72.5 kV
- ② France up to 36 kV
- ③ Germany up to 72.5 kV
- ④ Belgium up to 42 kV
- ⑤ South Africa up to 72.5 kV
- ⑥ Egypt up to 36 kV
- ⑦ Australia up to 72.5 kV



Location and contact information of our training centres

① United Kingdom

Nexans Power Accessories UK
sales.npa@nexans.com

Unit 1 & 2 Good Hope Close,
 Normanton Industrial Estate,
 Normanton, West Yorkshire, WF6 1TR

② France

Nexans Power Accessories France
sales.npa.france@nexans.com

Donchery Training Centre
 ZI Donchery
 08350 Donchery

Bordeaux-Merignac Training Centre
 17 rue Euler
 Parc d'activité de Château
 Rouquey
 33700 Merignac

③ Germany

Nexans Power Accessories Germany
sales.npag@nexans.com

Ferdinand-Porsche-Str.12
 95028 Hof

④ Belgium

Nexans MVTC
trainingcenter.nbx@nexans.com

Amacro Business Park – Heideveld 12
 1654 Huizingen

⑤ South Africa

Nexans Power Accessories South Africa
sales@iso-tech.co.za

Unit 2, Stand 77, Capital Hill
 Commercial Estate,
 Le Roux Avenue, Midrand

⑥ Egypt

Smart Connections
info@smartconnectionseg.com

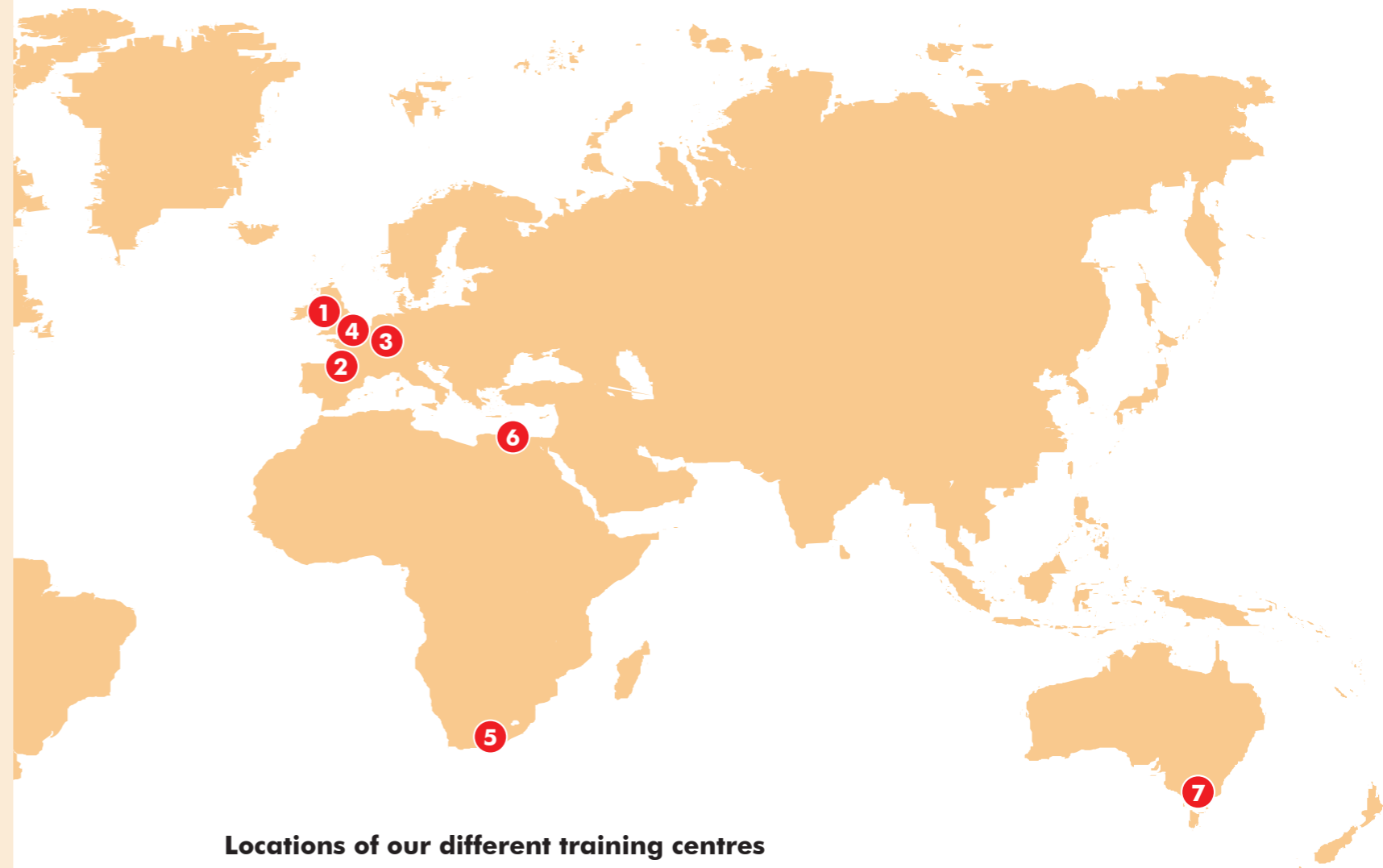
25 Nasr Khesrou - 7th district
 Nasr city, Cairo

⑦ Australia

Nexans Power Accessories Australia
nexans.salesnpaa@nexans.com

Building 2, 69 Dalton Road,
 VIC 3074, Thomastown

Training centres locations



Locations of our different training centres

We have training centres locations all over the world. On this map you can see where our current centres are. As we grow, more training centres will be added to our offer.

On-site product specific demonstrations, training and certification



On-site training

When you have site or application specific needs, encounter travel restrictions for your team, we are able to propose you on-site training. Together we will review your needs allowing us to propose you the correct training modules. These modules will be adapted to your site's conditions. The on-site training can be offered either at your premises or at the working site of your customer.

These training modules are ideal for, but not limited to, the Oil & Gas, Renewable, Shipbuilding and Heavy Industries.



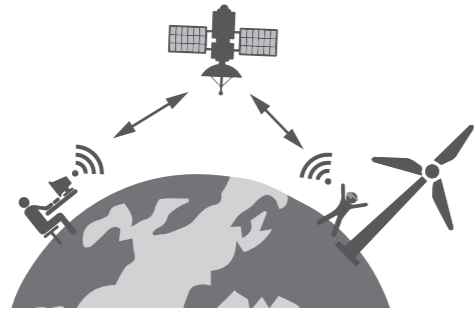
On-site training

The on-site training modules are more focused on the installation of the required accessories itself rather than the complete cable preparation course. We expect for on-site training that the technicians are already skilled in the cable preparation aspect of joining a power accessory. Of course we will remain giving advise or support the technicians when needed on cable preparation.



On-site training objective

These on-site training courses are often requested by Project Owners, asset managers, EPC's, etc. before granting the contractor the permission to start working on their network. This with the objective to be sure the contractor is familiar with the accessories which need to be installed. As the main goal is again to reduce the risk of wrong installations to its maximum.



Remote Support with HoloLens 2

Online training

assist you in any form of installation failure assessments. This mixed reality tool allows us to see live what the local operator is seeing who could be

This tool could be very interesting in making a live assessment of your assets before making the immediate decision of sending an expert over to your site. As often, your problem could be solved immediately through our online support program. If not, it will support us in providing the professional solution afterwards.



Remote online support and online training

When one has limited travel options due to visa requirements, mandatory quarantines, expensive travel costs, specific site's entry regulations (like off-shore projects), Nexans can still assist your needs with our online support program.

Through mixed reality, we can assist in installation trainings, site supervision, perform audits and

sitting literally on the other side of the world. From our side, we can bring up technical datasheets, instruction manuals, pictures and other documents live on the glasses from the operator.

The main advantage of this technology means that the operator has both hands free to perform the work. Without the limitations of juggling a mobile phone in one hand and a tool in the other hand.



Audio
Camera's

Shared screen

Microphones

Microsoft HoloLens 2

Microsoft HoloLens brings holograms into the real world through mixed reality (MR) technology. Learners keep a view of the real world through transparent lenses as they place and explore 3D holographic images, photos, and videos anchored within their view.

Microsoft HoloLens is a fully untethered headset that uses holographic images for learning.

Please contact our training centres for more information or to discuss your needs.



Training Certificate Information



Training Certificate

After completion of the followed course, each participant will be issued a training certificate, detailing the accessories the participant has been trained on. Depending the type of course, these certificates can be valid for 2, 3 or even 5 years. For our MV/LHV accessories, we even attach the electrical test results of the made examination sample.

Nexans makes a strong differentiation between the two types of training: we have the awareness training certificate and the competency training certificate.

Awareness training has the objective to familiarise the participant with all the installation steps related to the relevant accessories. During these courses, the participant has not followed the examination process to prove his/her competency. Often awareness or familiarisation trainings are

held in front of a group where only a few participants actually participate in the installation of the accessory.

Competency training has the objective to train the participant on all processes to install the relevant accessory. This training will start with a theoretical program, then the practical program and followed by an examination. This examination is mandatory to show objectively that the participant is competent in installing the relevant accessory.

Recertification

When a participant's certificate has expired, we offer specific courses to refresh his/her skills, allowing him/her to renew the certificate. Please contact one of our training centres to see what's the best way to renew your certificate.

Voice of the Customer

Garry Hardaker, HV supervisor @ Correll Services, recently successfully achieved 33 kV Jointer Competency & Certification according to Nexans Module 2 Medium Voltage Terminations & Separable Connectors Training Course.

"The training managers at Nexans demonstrated exceptional knowledge and experience providing clear answers to all questions regarding practical and theoretical queries during the jointer training course."



Offshore wind



Onshore wind



Solar



Hydro



Nuclear



Mobility



Industrial



Data centre



Infrastructures

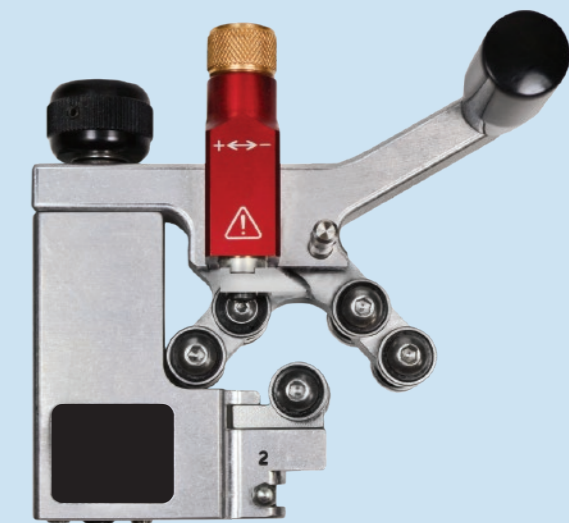


Fossil

Nexans Power Accessories can advise you on selecting the right tool for your need

As specialists in the field, we understand the cable preparation and cable fixing solutions that are required by jointers and engineers. As such, we can assist you in selecting the correct tooling you require. As for each country the cables might be different, thus you will require a specific but each time different tool.

Please contact your nearest training centre so they can support you the best way possible. All our contact details can be found on page 5 of this brochure.



Cable Semi-Con Shaving Tool

About Nexans

For over a century, Nexans has played a crucial role in the electrification of the planet and is committed to electrifying the future. With 28,000 people in 42 countries, the Group is paving the way to a new world of safe, sustainable and decarbonized electricity that is accessible to everyone. In 2022, Nexans generated 6.7 billion euros in standard sales. The Group is a leader in the design and manufacturing of cable systems and services across four main business areas: Power Generation & Transmission, Distribution, Usage and Industry & Solutions. Nexans was the first company in its industry to create a Foundation supporting sustainable initiatives, bringing access to energy to disadvantaged communities worldwide. The Group pledged to contribute to carbon neutrality by 2030.

Nexans. *Electrify the future.*

Nexans is listed on Euronext Paris, compartment A.
For more information, please visit
www.nexans.com