

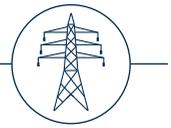


Academy training courses 2019



vonRoll Institute
for High-Voltage Insulation

High-voltage course



Locations:	Breitenbach, Switzerland and Delle, France
Dates 1st training course:	March 18-21, 2019
Dates 2nd training course:	October 21-24, 2019
Fee:	CHF 3 500 without VAT including meals and accommodation

The insulation course focuses on insulation for high-voltage electric rotating machines. It has become increasingly popular and is now open to everyone involved in insulation technology for rotating machines and wanting to remain up to date. The target audience for this course is technicians, engineers, and managers who wish to gain deeper insight into and exchange ideas on insulation technology and materials. Participants benefit from a basic knowledge of electrical engineering, physics, and chemistry, although this is not required. The number of participants is limited to twelve to ensure the quality of interaction.

Course content

The high-voltage course includes the following topics:

1. General knowledge

- » Basics of motors and generators
- » Mica and mica paper
- » Insulation materials and their evaluation

2. Insulation technology

- » Resins and varnishes, impregnation techniques
- » Resin-rich & VPI technology, theory and practice
- » Suppression of partial discharge
- » Winding wires
- » Composite materials
- » Processing equipment and technology
- » Testing of sample coils

3. Insulation systems

- » High-voltage motors
- » Large power generators
- » Traction motors
- » Wind-turbine generators

4. Factory visits and application exercises

- » Flexible materials and liquids
- » Winding wires
- » Composite materials
- » Applications laboratory
- » High-voltage laboratory



Low-voltage course



Location: Trofarello, Italy
Dates: June 3-5, 2019
Fee: EUR 1 900 without VAT
including meals and accommodation

This training session provides a detailed view of insulating materials and systems for low-voltage rotating machines, including their selection, processing and testing. The course includes three days of classroom learning and hands-on activities well suited for production and design engineers, R&D staff, repair specialists, end-users, and other technical staff, who require more thorough knowledge of these insulation systems.

Course content

This course takes place at our center of excellence for liquids in Trofarello, in the region of Turin (Torino), Italy, and includes the following topics:

- » Introduction and fundamentals
- » Winding wires
- » Flexible insulation
- » Electrical adhesive materials
- » Banding tapes
- » Impregnation resins and varnishes
- » Potting and encapsulating compounds
- » Component and systems testing (UL focus)
- » Customer acceptance testing
- » Stresses in inverter-driven drives



Advanced High-voltage course



Location:	Breitenbach, Switzerland
Date:	April 2-4, 2019 November 12-14, 2019
Fee:	CHF 4 500 without VAT including meals and accommodation

For those with an extensive knowledge of insulation technology, we offer a three-day advanced course with the possibility of excursions to other facilities. In this course, we focus even more on discussion and practical work. The number is limited to eight participants due to the interactive nature of the program. We ask you to inform us in advance about your questions and topics of interest, so that we can better prepare and make sure the appropriate experts will be available to you.

Course content

- » Different insulation technologies and an introduction to the latest developments in insulation tools
- » Insulation systems in typical high voltage uses such as hydro and turbo generators, industrial plants, electric cars, and drive trains
- » Run-through of different example cases in workshops and practical tests
- » Visit to the factory and laboratories in the region

Introduction days at the Von Roll institute

Meet our experts in person and take a look around our facilities in Switzerland.

Location:	Breitenbach, Switzerland
Dates:	1 x month – every third Thursday of the month
Duration:	1 day / Language: English or German (alternating)

Further Information:

- » Introduction to operations at the Von Roll Institute
- » Current trends and fields of research
- » Laboratory visit
- » Practical demonstration of high voltage tests

Contact



You may wish to contact us for further details and information.
The course organizers may be reached directly at: contact@vonroll.institute

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Visit our website www.vonroll.institute