



Step

1° Power Transformer Seminar



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We are pleased to present STEP, an innovative and exclusive initiative by Power Transformer Engineering (PTE). This meeting, scheduled to take place over two days in the beautiful and vibrant city of Medellín, is specially designed to address the most significant challenges and the latest advances in the field of power transformers and reactors

¿When & Where?

- **Location:** Intercontinental Hotel Medellín, Colombia.
- **Date:** October 21, 22 & 23 , 2024
- **Schedule:** 08:00 AM - 05:30 PM
- **Registration:** On the event website
- **Recommended registration:** 2 months before the event date
- **Duration:** 3 days



¿What is Step?

STEP (Power Transformer Seminar) focuses on delving into the crucial technical aspects of power transformers, addressing everything from specification and acquisition to maintenance, operation, and failure analysis of these essential equipment. It presents itself as an exclusive space where experts, suppliers, manufacturers, and professionals from the electrical and industrial sectors come together to share knowledge, experiences, and the latest technological innovations in the field of power transformers and reactors.

¿What is its objective?

The main goal of STEP is to strengthen and update the technical knowledge of the participants in all aspects related to power transformers and reactors. This event aims to improve knowledge, good practices, and optimal operation of these crucial pieces of equipment for power generation, transmission, and distribution systems, through technical talks, discussion panels, and real-case analysis sessions.



**“Moving forward together in the continuous
improvement of electric energy”**

Methodology



Interactive Dialogues with Specialists

Interactive forums with leading panelists discussing best practices and key industry challenges, giving attendees the opportunity to immerse themselves in rich discussions and gain varied perspectives

Commercial Fair

An exclusive fair with leading providers who will exhibit their innovations, offering attendees a unique opportunity to discover the most advanced solutions and connect theory with practice.

Specialized Technical Talks

These talks will be led by experts who will share their knowledge and experiences, providing a deep insight into each topic, focused on:

- *Development of technical specifications*
- *Advanced and current topics*
- *New materials and technologies*
- *Selection of providers*
- *Design review*
- *Fault diagnosis*
- *Predictive Maintenance*
- *Innovations in Insulating Materials*

Key benefits for companies



- ▲ **Cutting-Edge Training:** Sessions and technical talks designed to face current challenges in the management of inductive equipment, covering everything from technical specification and design review to predictive maintenance, advanced asset management, and fault diagnosis
- ▲ **Innovation and Technological Update:** A comprehensive overview of the latest innovations and trends in the sector will be provided, enabling your engineers to be at the forefront of emerging technologies and management practices
- ▲ **Opportunities for Strategic Networking:** STEP offers a unique platform to interact with experts, manufacturers, and other industry leaders, promoting the exchange of ideas and the formation of strategic alliances
- ▲ **Optimization in Decision-Making:** Through talks and case studies, your engineers will improve their analytical and decision-making skills in critical situations, increasing the resilience and operational efficiency of their systems

- ▲ **Acquisition of power transformers and reactors** addressing issues such as the development of technical specifications, design review, factory acceptance, and commissioning.
- ▲ **Optimization of the service life of inductive equipment** with good operating practices, monitoring, and maintenance of the equipment, mitigating the likelihood of early failures
- ▲ **Evaluation of the operational state of transformers** through the understanding of electrical and oil testing that facilitates decision-making in the face of atypical results
- ▲ **Configuration of protections and accessories** by understanding the functioning and operation of the protection equipment and transformer accessories, taking into account the relationship with the design bases for their proper configuration
- ▲ **Evaluation of failures and root cause analysis** from the understanding of the different types of failures based on the events that can occur in power systems
- ▲ **Evaluation and management of environmental impact** through new practices in the market such as partial or total renewal that allow reducing the carbon footprint by extending the life of existing equipment

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The desire of our world for energy knows no bounds, from electrification and digitalization to urbanization. At the same time, we must swiftly transition to sustainable energy sources to halt climate change.



The growing demand for electricity faces a volatile and dispersed supply. Meanwhile, the work of transformer manufacturers, public and industrial network operators, and energy companies remains the same: to ensure a stable energy supply for homes and industry. And as reliable and affordable as ever.



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Industrias Explorer Ingeniería S.A.S. is a Colombian company with over 60 years of experience in the electrical sector at both national and international levels, providing efficient solutions in the following areas:



- Repair and Maintenance of Power Transformers with nominal characteristics up to 100 MVA at 230 kV
- Design review and support in the manufacturing process of new transformers.
- Partial and total repair and maintenance of industrial and electrical motors and generators.
- Field service and supply work to be developed in the substation



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Weidmann Electrical Technology is a leader in electrical components, known for its innovation and quality. With over a century of experience, it develops advanced insulating materials that enhance the efficiency and safety of global electrical systems.



Its adaptability to market demands makes it a reliable partner in the industry. The company focuses on sustainability and innovation, investing in development to exceed environmental and performance standards. With a global presence and outstanding customer service, Weidmann provides solutions that promote an efficient and clean energy future.



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