

# TRAINING ON DRIVES

- Nurturing Engineer Skills in Drive Systems



# ABOUT US

**Welcome to Pertecnica, your gateway to skill elevation! We specialize in providing targeted training for employees, equipping them with the tools to excel in their roles. Our expert-led programs ensure a seamless blend of theory and practical application, fostering continuous growth. At Pertecnica, we don't just train; we empower professionals for success in today's fast-paced work landscape.**



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# SPECIALIZED TRAINING PROGRAMS

## - for drives

Pertecnica's training encompasses pivotal topics, including drive principles, operational techniques, troubleshooting, maintenance, and advancements in drive technology. Prioritizing efficiency, reliability, and adherence to industry standards, Pertecnica Engineering ensures participants gain profound knowledge, enabling them to proficiently manage, maintain, and optimize drive systems within India's industrial landscape with precision and efficacy.

### Employee Trainings on Drives

#### Drive Environmental Compliance:

Addresses environmental regulations & best practices related to drive & VFD operation, energy efficiency, emissions control, and waste management.



#### Power Electronics and Semiconductor Devices:

Provides an understanding of power electronics and semiconductor devices used in drives and VFDs, including diodes, transistors, and thyristors.



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**Drive Assembly and Installation Training:**

This program covers the assembly, installation, and wiring of drives and associated equipment, including VFDs, motor control centers (MCCs), and power distribution components.

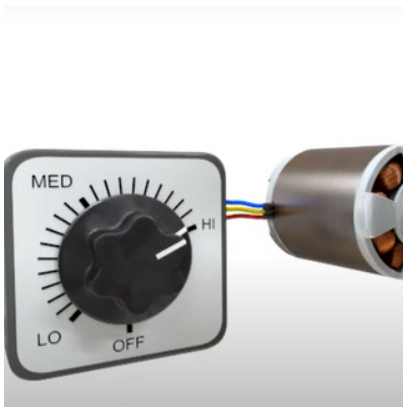
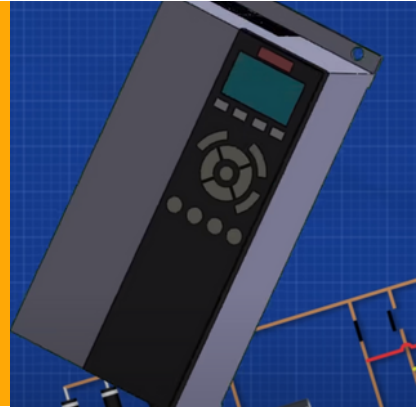


**Drive Operation and Control Training:**

Focused on drive operation, this training program covers drive controls, parameter settings, startup and shutdown procedures, and safety protocols.

**Drive Maintenance and Troubleshooting Training:**

Covers routine maintenance tasks, preventive maintenance scheduling, and troubleshooting techniques to ensure drives and VFDs operate efficiently and reliably.



**Variable Frequency Drive (VFD)**

**Programming and Commissioning:**

Training on programming VFDs, setting drive parameters, and commissioning VFD systems for motor control and energy efficiency.



**Drive Safety and Regulatory Compliance Training:**

Emphasizes safety practices when working with drives and VFDs, including hazard identification, safety regulations, and compliance with industry standards.



**Power Drive Systems and Harmonics Mitigation:**

Addresses power quality issues, harmonics mitigation, and the impact of drives on the electrical system, focusing on power factor correction and harmonic filters.

**Drive Networking and Communication Protocols:**

Covers communication protocols used for networked drives and VFDs, including Ethernet, Modbus, Profibus, and industrial networking principles.



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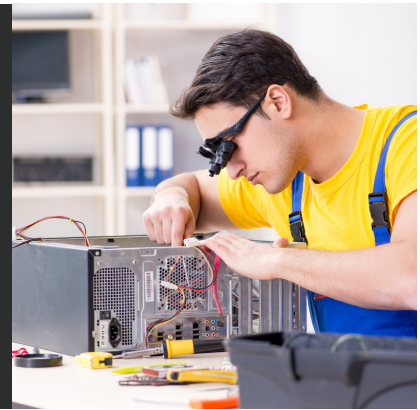
**Drive Efficiency and Energy Optimization:**

Training on strategies to optimize drive and VFD performance, improve energy efficiency, and reduce operating costs.



**Drive Retrofitting and Modernization:**

Addresses the retrofitting of existing drive systems with modern components, VFDs, and automation technologies to improve performance and efficiency.



**Drive Troubleshooting and Repairs:**

Covers diagnosing and repairing drive and VFD issues, including fault identification, troubleshooting techniques, and basic repair procedures.

**Why Choose Pertecnica Engineering?**

- **Expertise & Relevant Experience:** We have in-depth expertise in the specific subject matter and relevant industry experience. This ensures that the training is not only theoretically sound but also practically applicable to real-world scenarios in the company's specific field.
- **Customization and Relevance of Content:** Our tailored programs that align with the company's objectives, culture, and the specific skill gaps of the employees are highly valued.
- **Measurable Outcomes and ROI:** Our training will lead to tangible improvements in employee performance and productivity, thereby offering a strong return on investment (ROI).
- **Flexibility & Innovative Delivery Methods:** Flexibility in terms of scheduling, format (in-person, online, hybrid), and adaptability to different learning styles. We offer innovative and engaging training methods that keep employees motivated and facilitate effective learning.

