

## Drive & Control Academy

The Drive & Control Company



# Knowledge – the decisive competitive advantage

"Knowledge is power," formulated the English philosopher Francis Bacon in the 16th century. In this tenor, it can be said of today's economic world: "Knowledge is the decisive competitive advantage." The specialized knowledge and competence of a company's employees are a fundamental factor for its success in global competition. A well-structured training and further training program, periodic qualification measures and the increasingly important concept of lifelong learning represent not only the basis for the economic success of a company, but also for the personal progress of each individual employee.



Bosch Rexroth is one of the world's leading specialists in drive and control technology and possesses unique technological know-how with respect to products, solutions and their use. The company passes this knowledge on through the Drive & Control Academy, supporting the specially tailored training and qualification of technically qualified personnel.

## Training

New training courses and the continuous further development of the training program ensure that knowledge transfer is always at the current state of the art. The repertoire of methods includes classroom instruction, e-learning, practical training and blended learning, which combines the advantages of classroom instruction and e-learning. This increasingly popular training method has been part of Rexroth's program for years. During customer training, the principle of customer proximity is in the foreground.





# Drive & Control Academy

Under the umbrella of the Drive & Control Academy, Rexroth offers an extensive portfolio of knowledge products in the area of drive and control technologies that is oriented towards practical industrial applications. In particular, the Drive & Control Academy sets standards in the didactical preparation of specialized and integrated knowledge for customers, employees as well as training and further training institutions. The target groups include developers, designers, machine operators and service staff of machine manufacturers and users.

„Investment in knowledge  
always pays the best interest.”

**Benjamin Franklin**

## Training systems

The training systems provide novices and experts with practically oriented knowledge in the areas of hydraulics, pneumatics, electric drive and control technology, mechatronics and automation. They include industrial series components and have internationally standardized programming languages and open interfaces at their disposal.



## Media

The software-based teaching and learning media are characterized by high practical relevance consisting of extensive e-learning modules, technology trainers, application trainers, animations of components and systems as well as simulation-supported learning units. Additionally, dictionaries, textbooks, handbooks, and other relevant material for instructors and students are provided.



## Knowledge Portal

The newly developed Knowledge Portal will develop into a multimedia point of contact for all drive, control and motion technology topics in industrial and educational training and further training as well as in qualification programs. The global network offers high-quality information and facilitates a structured exchange of knowledge and experience.



# Training

Rexroth has established itself on the market as a competent training partner for numerous companies and institutions. The training program of the Drive & Control Academy includes tailor-made programs for nearly every need. The training courses provide participants with the necessary knowledge in a practical manner tailored to the target group. New training courses and the continuous further development of existing courses also ensure that the qualification always takes place at the current state of the art.

By means of a standardized, high-quality trainer qualification program, Rexroth ensures the globally high quality of the services. At the same time, this coordinated Train-the-Trainer program guarantees knowledge transfer for the certified instructors. In the training courses, the trainers are happy to answer specific questions and, working together with the participants, search for solution possibilities, alternatives and methods. The training units take place both in special instruction rooms as well as directly onsite with the customer.

The repertoire of methods includes classroom instruction, e-learning, blended learning and practical training.



**Classroom instruction:** New training courses and a continuous further development of existing courses serve to guarantee that the knowledge conveyed to the participants always reflects the current state of the art of the drive & control technologies.

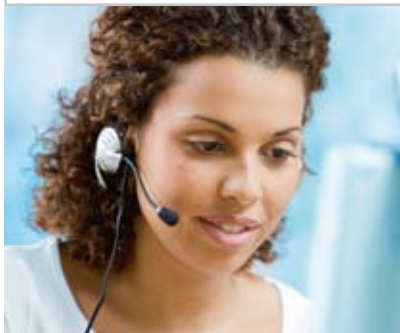




**Blended learning:** This methodic approach combines the advantages of e-learning and classroom instruction. The training is comprised of so-called e-modules, self-learning sequences on one's own computer, two online sessions in a virtual classroom and a two-day classroom seminar – the perfect training alternative for reducing travel and costs associated with lost work time.



**E-learning:** Today, independent learning on a computer is an essential part of knowledge transfer, as it enables time- and place-independent learning. Increasingly important lifelong learning generally means learning while working. And in this regard, flexibility with respect to time and place is particularly important.



**Practical training:** Practice, practice, practice! A large portion of the Rexroth training courses involves practical exercises. With support from the trainers, the participants built circuits using realistic training systems: they optimize settings, make additions themselves, perform conversions, and install and use programs. And of course, commissioning and troubleshooting are also simulated.



# Training systems

The technical know-how from Rexroth and the solution competence in the area of industrial applications flow seamlessly into the modularly structured training systems – and thereby exactly fulfill the qualification levels demanded by industry. With the aid of the training systems, novices and experts acquire practically oriented and technical knowledge in the areas of hydraulics, pneumatics, electric drive and control technology, mechatronics and automation, step-by-step.



"Tell me and I'll forget.  
Show me and I may remember.  
Involve me and I'll understand."

Johann Wolfgang von Goethe (1749-1831)



The hydraulics training system demonstratively illustrates the operating behavior of modern hydraulic circuits, for example, and optimally prepares students for practical work in the company. The training systems for automation technology integrate pneumatics, sensor, control, handling and drive technologies, thereby supporting the broad range of course offerings in mechatronics. In doing so, Rexroth relies consistently on industrial series components and

standards, ensuring long-term investment protection. In addition, the training systems have internationally standardized programming languages and open interfaces at their disposal.

Rexroth offers the training systems in two different levels: EcoLine and ProLine. While EcoLine includes economical solutions for imparting solid basic knowledge, ProLine represents best-in-class solutions for training systems.

#### **EcoLine**

The EcoLine training systems provide companies and educational institutions with an economical entry into practical training and further training and the conveyance of solid basic knowledge. The products include safe, robust and easy-to-operate series components that were developed for practical use. This ensures a seamless transition to the requirements of day-to-day work later on. Learning modules that build upon one another enable the trainers to tailor the content to the individual requirements of the training participants.



#### **ProLine**

The modularly structured ProLine training systems represent the complex interaction of various technologies used in industry – including hydraulics, pneumatics, mechatronics and a standardized PLC. In this way, the products put companies and educational institutions in the position of developing very realistic and practically oriented training and further training programs. At the same time, the training systems offer a high level of freedom: the modules also function as individual systems that cover the respective technologies. They are expandable and thereby safeguard investments.



# Media

The extensive teaching and learning media from Rexroth make knowledge available and are designed specifically for the training courses and training systems of the Drive and Control specialist. Digital media are of increasing importance here, both as an information medium as well as a learning medium. Because the growing mobility in our society requires increasing time- and place-independent possibilities for learning.



The broad spectrum of teaching and learning media enables customers to individually assemble their media to best meet their needs. To structure training and learning as efficiently as possible, customers can select from printed products, computer-based training and web-based training.

The software-based teaching and learning media from Rexroth are characterized by high practical relevance consisting of extensive e-learning modules, technology trainers, application trainers, animations of components and systems as well as simulation-supported learning units.

In spite of their growing importance, digital media will not completely replace printed products. For this reason, Rexroth will continue to include dictionaries, textbooks, handbooks for instructors and students as well as instructional and training material in printed form in its portfolio of teaching and learning media.

Using modern media to convey technical and methodological competence.



# Knowledge Portal

The newly developed Knowledge Portal of the Drive & Control Academy will establish itself as a multimedia standard in industrial and educational training and further training. It includes all key topics and aspects of drive, control and motion technology. The Knowledge Portal was developed for people who make technology, who learn technology, and who teach technology.



This global Knowledge Portal describes the new learning and knowledge-transfer concept from Rexroth: it offers both qualitatively high-quality basic information on technical issues as well as web-based, commercially offered

services, such as animations and calculations. This unique point of contact on the Internet will provide users with an unmatched, structured exchange of knowledge and experience.

**The Drive & Control Academy – for people who...**



... make technology



... learn technology



...teach technology

**Gain the decisive knowledge advantage in drive & control technologies**



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