

About our training systems

The Rexroth training systems provide newcomers and advanced users with practical hands-on learning in the areas of hydraulics, electric drives, and control technology, as well as manually operated valves, solenoid operated valves, and open and closed loop control systems. Topics such as proportional and servo control as well as mobile hydraulics can be taught on our tried-and-true training systems. They offer a base for training with modern hydraulic circuits and prepare trainees for their future work in industry. All training systems are complete with standard industrial components and follow internationally standardized programming languages with open interfaces.



Bosch Rexroth Corporation
Hydraulics Training Center
2315 City Line Road
Bethlehem, PA 18017
Telephone: (610) 694-8300
info@boschrexroth-us.com
www.boschrexroth-us.com

For more information:

For enrollment availability, pricing, and payment options, please email training@boschrexroth.com.

We look forward to seeing you in 2024!

Hydraulics Training Center



Basic, intermediate, and
advanced training courses

Hydraulics technology offers many advantages with its phenomenal power transfer capability, durability, and controllability in modern machinery. Leveraging these advantages requires personnel with thorough knowledge and skills from concept to retrofit, understanding a machine’s entire life cycle.

Our new, state-of-the-art 4000 sq. ft. facility features three hydraulic training stands, classroom, lounge, cafe, breakdown table, and lockers. It’s suitable for basic and advanced classes, as well as demos of other products and viewing web seminars.

About our courses

Bosch Rexroth Hydraulics Training Courses offer students the fundamental knowledge and skills to succeed. Subjects range from selecting sizes and types of hydraulics system elements, commissioning new equipment, and maintaining existing equipment to recognizing opportunities for increasing productivity and/or enhancing service life. Our courses offer a rich blend of learning activities to maximize understanding of fluid power concepts, components, and their applications in modern industrial equipment.

BASIC HYDRAULICS

This is a 1st level hydraulics training course for anyone working with industrial hydraulic equipment. This training course is recommended for those who are new to hydraulically powered and controlled machines and equipment and for those who have had no prior formal training in hydraulics technology. Basic Hydraulics is also recommended for plant engineering personnel who are tasked with hydraulic system improvement, system modifications, and system design. The Basic Hydraulics training course will cover the physical principles that apply to industrial hydraulics, utilizing lecture and hands-on work.

PROPORTIONAL HYDRAULICS

Electro-proportional hydraulic valves are widely used in hydraulic powered and controlled machines and processes. This course will bridge the gap between conventional valve technologies and so-called continuous control valves through understanding the operation of the valve and control. There will be ample time devoted to the interconnection and operation of valves and their associated control electronics. Students will configure the electronic interface and place the valve in working circuits to observe the operation and tune the control. Through this hands-on approach, students will develop their setup and troubleshooting skills.

HYDRAULIC SETUP, COMMISSIONING, AND MAINTENANCE

This course will give students understanding of the important elements of planning and executing system work, recognizing and avoiding mistakes, measuring performance, and solving problems frequently encountered in hydraulics.

DESIGN CONSIDERATIONS FOR INDUSTRIAL HYDRAULICS

This training course is a must for plant personnel tasked with hydraulic system improvement, or with the development of initial designs for a new hydraulic application. Students will learn to properly evaluate the load to be moved and controlled, and to select appropriate valves for this purpose. Classroom discussion will be balanced with system component selection and sizing problems.

HYDRAULIC PUMP/MOTOR CONTROLS

This course develops the student’s knowledge of the operation of fixed and variable displacement piston pumps and motors, and the operation/setup of various pressure and displacement controllers. Maintenance technicians can better understand controller operation and set-up, ensure pump performance, and optimize pump lifetime. Engineering personnel develop their knowledge of proper pump/motor control selection and sizing. Rexroth ‘Sytronix’ technologies of VFD and electric servo drives in conjunction with fixed and variable pumps will be investigated.



2024 Course Schedule

Basic Hydraulics (4 days)	
January	22-25
March	25-28
May	6-9
June	17-20
August	5-8
September	23-26
November	4-7
December	9-12

Proportional Hydraulics (3 Days)	
June	3-5
September	10-12

Design Considerations for Industrial Hydraulics (4 days)	
July	22-25
October	7-10

Hydraulic Setup, Commissioning & Maintenance (3 Days)	
May	14-16
August	27-29

Hydraulic Pump/Motor Controls (3 Days)	
September	16-18

Course schedule is subject to change.

