

Maintenance Hydraulics

Course Code: MH-s

Bosch Rexroth, Treforest / Bradford or Customer Site*

Aims

- › Hydraulic training at our Treforest or Bradford facility
- › To impart a basic understanding of maintenance hydraulics
- › To increase the knowledge of personnel who are actively engaged on the repair and maintenance of hydraulic systems
- › To allow participants to become familiar with fluid power technologies such as pump flow, cylinder speed, forces and pipe sizes
- › Introduce basic hydraulic theory
- › To increase the knowledge of personnel in maintenance and fault-finding techniques associated with hydraulic systems
- › To enable participants to understand their specific hydraulic installation and circuit diagrams
- › To gain hands-on experience of building, fault-finding and optimising hydraulic circuits using our range of specially designed training rigs (Treforest/Bradford location only)

› Course Content

› Day one

- › Basic hydraulic principles
- › Hydraulic symbols and circuit notations
- › Pressure control valves and associated circuitry
- › Relief valves and pressure reducing valves
- › Sequence valves and counter balance/overcentre valves
- › Flow control valves and associated circuitry
- › Simple throttle valves
- › Pressure/temperature compensated units
- › Direction control valves and associated circuitry
- › Direct operated spool valves
- › Two stage spool valves
- › Poppet valves and logic cartridge elements

› Day two

- › Check valves - type and applications
- › Pump and pump control systems
- › Pump types and operating principles
- › Methods of control/application
- › Accumulator types and application
- › Hydraulic motors and actuators
- › Total cleanliness control
- › Hydraulic fluids, good housekeeping
- › Methods of control and application

› Day three (Bradford/Treforest)

- › Total cleanliness control
- › Hydraulic fluids, good housekeeping
- › Maintenance and trouble shooting techniques
- › Practical hands-on exercises

› Day three (Customer Site)

- › As no practical exercises are included in training carried out at customer site, Day 3 is devoted to analysing customer circuit diagrams in terms of maintenance requirement, testing, checkouts and faultfinding
- › Explanation of circuit layout and design
- › Type of components installed
- › Maintenance and troubleshooting techniques

Bradford

3 days

19 - 21 January

14 - 16 December

Treforest

3 days

18 - 20 May

16 - 18 November

*Note:

For the MH-s course carried out at customer site, no training rigs will be used.

This training is adaptable to bring hydraulic training into the working environment without the need for special facilities, power supplies or rooms.

Pre-requisites

- › No previous knowledge required

Participants

- › Maintenance Engineers
- › Project Engineers
- › Technical Personnel
- › Sales Personnel