

Course Hydraulic Systems Design



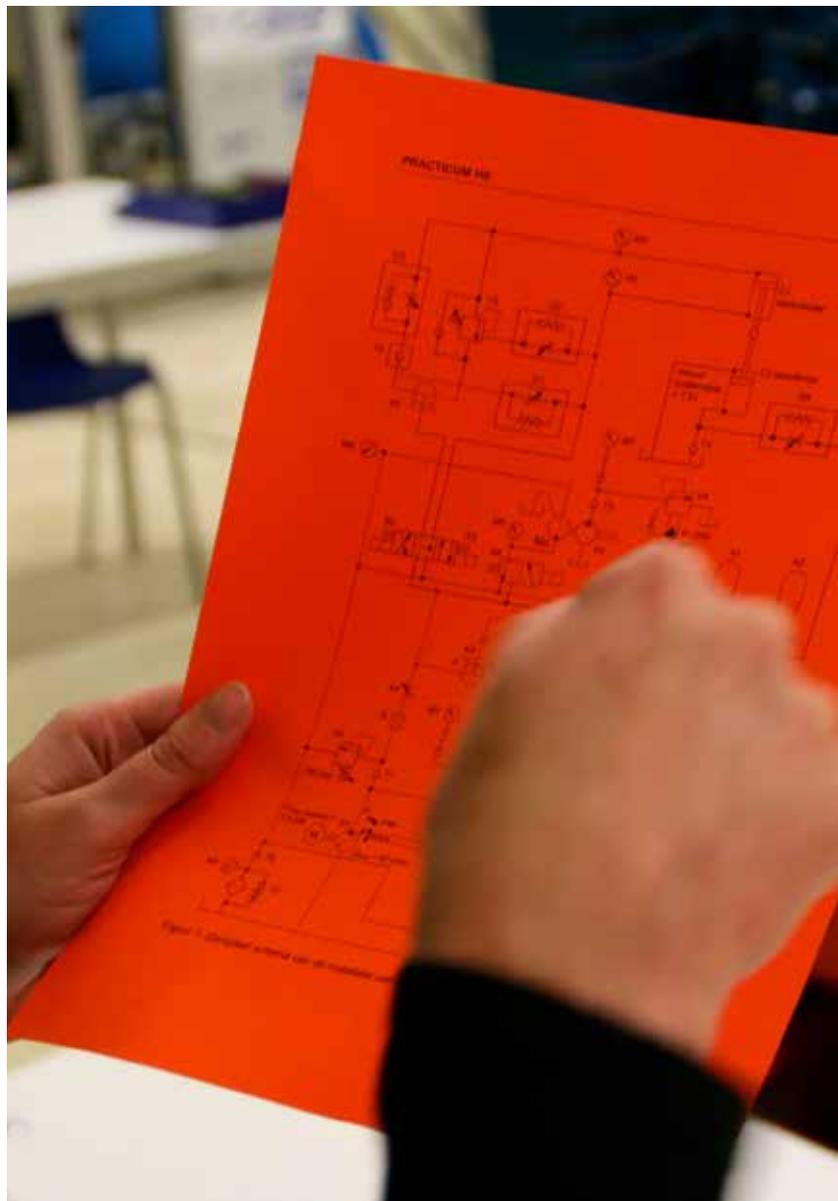
In short

A good hydraulic system design is important if a system is to be produced that will operate in the best possible way.

Choosing the right components also ensures operational reliability, energy savings and noise reduction. If you have practical and theoretical knowledge of hydraulics and want to improve your ability to assess and design systems, then this course gives you practical knowledge for designing various hydraulic systems, letting you both prevent and resolve practical problems.

Who is it for?

This course is highly suitable for staff who are involved in designing, changing or assessing hydraulic systems – for instance constructors, service technicians, (trainee) designers or sales engineers of hydraulic systems. You will be trained at the Design level. Secondary technical school education (Dutch MTS) supplemented by the ROVC Hydraulic Systems Technology course or polytechnic (Dutch HTS) education combined with thorough knowledge of hydraulics is strongly recommended.



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Course goals

After completing the Hydraulic Systems Design course, you can:

- design hydraulic systems systematically
- ask the right questions in order to create a sensible hydraulic diagram
- choose the right components
- solve problems more easily when designing, changing and assessing hydraulic systems
- create more effective designs from a detailed package of requirements

Contents

- choosing types of drives and determining whether the hydraulic system will be loaded to its maximum and whether this will be continuous
- choosing between a number of alternatives, for example a solution with pump control or proportional valves
- translating requirements from the package of requirements relating to business conditions into safety devices and conditioning (e.g. filters, coolers, etc.)
- determining requirements concerning load, torque, capacity, revs, power, speed
- distinguishing between the 'main flow system' of the drive, the safety, the conditioning etc.
- general dimensioning of the components required (without efficiency figures), followed by general dimensioning of the components required with efficiency figures
- applying digital documentation that is used during the design process



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Practicals

During the course, you will work out various cases to use the knowledge acquired about hydraulic systems in practice.

ROVC courses focus on training from a practical perspective with the practical use in mind. You can practice on safe and modern practice systems at the unique ROVC TechCenter (which has a practicals area of more than 3,000 m²). The tasks are based on situations that you will encounter in practice. The practical work will be performed under professional supervision. In addition, practical cases are frequently used during the lessons, and the teachers use examples from their own work practice. You will of course be allowed to present examples of your own too.

Completion

During this course, your teacher will assess your active participation during the lessons. If the final result is positive, you will receive a generally recognised certificate.

Course variants

Open network

ROVC plans its courses at several locations throughout the Netherlands, so there is always a training course in your area.

Duration	Number of meetings	All-in price (excl. VAT)
3 weeks	3 days	€755

In-company

The Hydraulic Systems Design course can also be organised in-company and can be tuned to your wishes and requirements, if necessary. ROVC has a suitable solution for any issue. Please contact your account manager or call us on +31 (0)318-698698.

Starting dates and locations

If you would like to start this course, go to www.rovc.nl for our current starting dates and locations.

