

Course Pump Technology



In short

Pumps are an indispensable link in all branches of industry, in application areas from swimming pools to water supplies. In addition, pumps are vital for water management in the Netherlands. This Pump Technology course offers you a practical approach for selecting the right pump for your pump system, in which we will look at the pump and at how it is used in the system.

Who is it for?

The Pump Technology course is intended for operators, service and other technicians, sales and other engineers, designers, etc. who frequently encounter pump technology during their work, but who have too little practical knowledge to select the right pump or to set up complete pump systems. You will be trained at the Prevent level. The ROVC Basic Pump Technology course or secondary technical school education with some practical experience in pump systems is the recommended previous education.

Goal

After completing the Pump Technology course, you are able to select the right pump and shaft sealing, taking account of all relevant process parameters (e.g. the medium, pump configuration, NPSH, material, etc.). You are aware of the relationships between the pump and pipe characteristics, and you know which parameters affect the pipe characteristics. You are familiar with pump controls and pump configurations and you know the various types of shaft sealing and how shaft sealing works. You can take account of the concepts of cavitation and NPSH when selecting pumps and understand the interdependency of the components in a pump system.



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Contents

- types of pumps, properties and application areas
- the pump and pipe (line) characteristics
- dynamic and static pressures in a system
- NPSH of the pump and cavitation
- effect of the medium's properties (viscosity, temperature, etc.)
- types of oil and their applications
- pump materials
- pump configuration and pump control (such as revs, control valve)
- pump drives
- operational pumps (starting and stopping, water hammer, optimum operation, faults)

Practicals

The only way to learn is by doing it! That is why, during the practicals day, you practice the aspects related to pump technology that were discussed during the theoretical sessions.

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.



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Completion

This course will culminate in a final test during the last session. If the final result is positive, you will receive a generally recognized certificate.

CerTech

ROVC cooperates with CerTech for organizing our final tests. CerTech is an independent examination organization that is responsible for developing, organizing and holding examinations and tests. On instructions from sector organizations, consulting agencies and training institutions, more than 10,000 candidates are examined every year. These are in particular examinations and tests that focus on technology, safety, security and organization & communication. If you have any questions about examinations or if you are looking for a partner to organize your examinations, please call CerTech on +31 (0)318-698605 or go to www.certech.nl

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)
1 month	4 days of which one is a practical day in Ede	€1,255

In-company

The Pump Technology 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.

