Basics of hydraulics

Ready to boost your hydraulic know-how? Whether you're brushing up on the basics or diving into practical applications, this two-day training event is designed to give you the tools, insights, and confidence to work smarter with hydraulics in real-world industrial settings.

Get Hands-On with Hydraulics – 2-Day Training Course

Who is the training suitable for?

For fitters, mechanics and supervisors working in industry. The course is also suitable for those working in the sales of hydraulic components or in customer service.

Content of the training

Day 1 – The Fundamentals

First we kick things off at 9:00 AM with a warm welcome before jumping into the essential building blocks of hydraulic systems. You'll get a clear grasp of key **terms, units, and principles**, from **hydraulic balance** and **fluid compressibility** to **flow types** and **hydraulic losses**.

After lunch, we'll decode **hydraulic symbols**, learn to **read schematics**, and explore complete systems. We'll also cover **safety best practices**—a must in any hydraulic setup—and round off the day with insights on **contamination control**, filtering, and keeping your systems clean and efficient.

Day 2 – From Theory to Practice

Time to get your hands on the hardware. We start with the most common hydraulic components—how they're built, how they work, and how to use them effectively.

Then it's into the **hydraulic lab**, where you'll practice:

Pump and valve adjustments
Pressure and flow regulation
Working with a cross-cut swashplate piston pump
Testing relief valve connections
Observing flow losses and understanding laminar vs. turbulent flow

This course isn't just about theory—it's about applying what you learn in real-life situations. Whether you're new to hydraulics or want to sharpen your skills, this training will help you take your knowledge to the next level.

Contact

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Experts

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Upcoming trainings

Basics of hydraulics

Location: Taitotalo, Valimo, Valimotie 8, 00380 HELSINKI
Timespan: 5.–6.11.2026
Register by: 4.11.2026
Duration: 2 päivää
Hinta: 990,00 € + VAT 25,5 % The full price including VAT 1 242,45 €

Lisätietoa

Basics of hydraulics
5.11.2026 - 6.11.2026
Taitotalo, Valimo, Valimotie 8, 00380 HELSINKI

Torstai 5.11.2026
Basic of hydraulics 1. päivä
Taitotalo, Valimo, Valimotie 8, 00380 HELSINKI
V210 Teorialuokka, Valimotie 8

9.00-10.45
Fundamentals of Hydraulics

Makkonen Mikko, koulutusasiantuntija, Taitotalo

10.45-12.00
Symbols, Diagram Reading and Systems

Makkonen Mikko, koulutusasiantuntija, Taitotalo

12.00-12.45
Lounas

12.45-14.00
Safety and Safe Practices in Hydraulics

Makkonen Mikko, koulutusasiantuntija, Taitotalo

14.00-16.00
Practical Exercises

Makkonen Mikko, koulutusasiantuntija, Taitotalo

Perjantai 6.11.2026
Basic of hydraulics 2. päivä

9.00-10.00
Hydraulic Condition Monitoring

Makkonen Mikko, koulutusasiantuntija, Taitotalo

10.00-12.30
Hydraulic Measuring Instruments and Sensors

Makkonen Mikko, koulutusasiantuntija, Taitotalo

12.30-13.15
Lounas

13.15-14.00
Electrical Control (Direct, Servo, and Proportional)

Makkonen Mikko, koulutusasiantuntija, Taitotalo

14.00-16.00
Practical Exercises

Makkonen Mikko, koulutusasiantuntija, Taitotalo