



INDUSTRIAL TRAINING



Our seminars meet the training needs of the manufacturing industry. Attendees value both the hands-on labs and the quality of our instructors.

Personnel with better skills can provide your company with a competitive edge by:

- ▶ Increasing plant production rates
- ▶ Delivering reduced downtime
- ▶ Decreasing maintenance costs
- ▶ Engaging and showing loyalty

What attendees are saying



HANDS-ON!

Norfolk Southern

“The mixture of lecture and hands-on lab instruction combined with real world application & experience stories made it easy to understand and be applied to my job.”



PRACTICAL

WSACC

“I liked the way the class started with the basics and moved on to the application of difficult components in the lab.”



INSTRUCTOR EXPERIENCE

Hydraulic System Design Student

“The instructor’s wealth of knowledge and detailed examples provided easy to access information on valving and equipment.”



Livingston & Haven is an innovative solutions provider and strives to be an essential partner in the successful future of U.S. Manufacturing. **We are the experts in hydraulics and fluid power systems.**

www.LivHaven.com/Training



PRINCIPLES OF

INDUSTRIAL HYDRAULICS

5 DAYS

The go-to introduction for hydraulic competence.

From Pascal's Law through schematics and hands-on exercises to 10 fundamental circuits used at plants.

PRINCIPLES OF

MOBILE HYDRAULICS

5 DAYS

Hands-on focus for technicians with mobile hydraulic equipment responsibility.

From hydraulic principles and application to mobile equipment: pumps and controls, valves, actuators, schematics and circuits.

PRINCIPLES OF

ELECTRICITY

4 DAYS

Theory, practical knowledge and structured hands-on lab exercises with an industrial electrical focus.

From AC and DC theory to schematics. Measurement and hands-on problems with circuits and introduction to PLCs.

PRINCIPLES OF

PNEUMATICS

2 DAYS

Safety, components, schematics, systems and maintenance in a busy hands-on course.

HYDRAULIC SYSTEM DESIGN

5 DAYS

An advanced training seminar to understand system design and optimization.

Optimal design reduces equipment cost, energy, maintenance effort, and production outage.

* Prerequisite

UNDERSTANDING PROPORTIONAL VALVES

5 DAYS

Learn the function and operation of electro-proportional hydraulic valves within a system.

Recommended for electrical and mechanical technicians and engineers.

HYDRAULIC PUMPS & CONTROLS

2 DAYS

Understand hydraulic pump types and their controls; as used in industrial systems including maintenance considerations and troubleshooting.

HYDRAULIC SPECIALIST REVIEW & CERTIFICATION

3 DAYS

International Fluid Power Society (IFPS) hydraulic specialists are recognized throughout the industry.

2.5 day review followed by the certification test. 80% pass rate in 2015.

HYDRAULIC SYSTEM MAINTENANCE

5 DAYS

Second-level training seminar for maintenance personnel who already have an understanding of hydraulic principles.

Hands-on work to improve efficiency, reliability, maintenance, troubleshooting and testing.

* Prerequisite

MECHATRONICS

4 DAYS

Advanced training focusing on key concepts used in mechatronic system design, troubleshooting and maintaining mechatronic systems. Sizing, optimization, coding, multi-axis synchronization.

OSHA

2 DAYS

Contact us to be included in our 10-hour course focusing on recognition, avoidance, and prevention of safety and health hazards in the workplace.

ON-SITE TRAINING

CALL US FOR DETAILS

We will bring customized fluid power and lubrication training to your company to increase general understanding using **your** equipment and schematics. On-site training is individually tailored so your maintenance personnel will understand how your own equipment works and how it needs to be maintained.