

FLUID POWER SOCIETY “INDUSTRIAL HYDRAULIC MECHANIC” CERTIFICATION

The International Fluid Power Society is the only organization that provides comprehensive technical certifications for all professionals in the fluid power and motion control industry.

IFPS certification tests provide an objective, third-party assessment of an individual's skill level and are recognized industry-wide. Individuals who successfully master a level of competency are issued a credential signifying an elevated status in the workforce.

An industrial hydraulic mechanic fabricates, assembles, services, maintains, and tests industrial hydraulic equipment. The mechanic understands hydraulic symbols, reads system schematics, understands electrical principles, and is skilled in using hand tools, power tools, micrometers, and testing equipment.

CLASS FORMAT:

Lecture and Hands-On Practice

STANDARD CLASS SIZE:

NTT recommends a class of no more than 12 participants to obtain the best results.

NTT TO PROVIDE:

- Three-days (24 contact hours) of on-site instruction
 - First a 3-days certification review training to prepare you for testing
 - Second a 1-day two-part test: Written + Hands-on from the Fluid power Society
- IFPS study guide which will be provided to the student before the class
- Classroom consumables
- Certificates are provided by the IFPS only if the student passes the tests
- Shipping and instructor travel logistics

CLIENT PROVIDES:

- Classroom of 500 square feet or greater
- Projection screen, white board and/or flip chart(s)

WHO SHOULD ATTEND:

- Anyone involved in the fabrication, assembly, servicing, maintenance, and testing of industrial hydraulic equipment.
- Mechanics required to understand hydraulic symbols, read system schematics, understand electrical principles, use hand tools, micrometers, and testing equipment.



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COURSE AGENDA

The “Industrial Hydraulic Mechanic” Certification Review Training covers:

- Read hydraulic symbols and circuit diagrams
- Use dial calipers and micrometers
- Know various tube fittings and select the proper replacement
- Make up tube assemblies
- Know how to prevent and repair system leaks
- Perform contamination control
- Add fluid to system with filter cart
- Aid in system flushing and commissioning
- Know how, when, and where to take fluid samples
- Use “Target Cleanliness Chart” for each system
- Check condition of hydraulic filters
- Check systems for water
- Make up a crimped hose assembly
- Replace a hose assembly
- Inspect hose applications for twist and minimum bend radius
- Service and charge accumulators
- Assist technicians in start up and commissioning
- Promote safe working conditions with pressurized systems

WHAT YOU WILL LEARN:

- You’ll learn preventative maintenance techniques, fluid filtration, component assembly, field repairs and shop repairs.
- You’ll learn to understand hydraulic symbols, read system schematics, understand electrical principles, use hand tools, micrometers, and testing equipment.
- This seminar consists of three days of intensive review and hands –on practice for the Industrial Hydraulic Mechanic certification test which will be held on the fourth day.
- All Industrial Hydraulic Mechanic certifications require a three (3)-hour job performance (hands-on) test and a three(3)-hour written test.
- A study manual will be provided ahead of time for candidates to prepare for the Industrial Hydraulic Mechanic certification exam.