

# FLUID POWER SOCIETY “INDUSTRIAL HYDRAULIC TECHNICIAN” 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 Technician” Certification Review Training covers:

- Sets-up and tests systems and components under direction of engineering and scientific staff
- Recommends modifications to circuit & components to improve performance
- Provides leak free piping
- Supervises system installation, flushing & commissioning
- Knows how, where and when to take fluid samples and read lab reports
- Can establish ISO cleanliness level for a system
- Can devise the Target Cleanliness Chart to aid diagnostics
- Understands sequence & counterbalance circuits and associated valving
- Sets pump load sensing and compensation controls
- Understands hydrostatic drives
- Understands basic electrical controls and their application
- Understand ladder logic
- Reads electronic circuits
- Calculates decompression volume
- Does trouble shooting and supervises required replacements, repair or adjustment

## 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.