

COURSE INCLUDES:

Textbook
Fluid Power Data Book
Certificate Of Completion



2-Day Program
8:00 A.M. – 5:00 P.M.
\$1,045 Per Person

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Onsite Programs

National Fluid Power Institute

www.nfpitraining.com
PH (800) 704-1066
FAX (800) 704-1367
523D FM 3179 Road
Huntsville, TX 77340

1. Closed Loop Hydrostatic Transmissions

- Operation
- Function
- Components
- System Efficiency
- Advantages & Disadvantages
- Braking Systems
- Controls
- Heat
- Duty-Cycles
- Design Considerations
- Variable Speed
- Variable Displacement

2. Fluid Motors

- Types Of Motors
- Applications
- Speed Control
- Load Holding
- Controls
- Reversing

3. Force, Torque & Power

- Terms Defined
- Calculations

4. Hydraulic Motor Selection

- Displacement
- Wheel Drives
- Winch Drives
- Fan Drives
- Comparison To Electric Motors
- Configuration

5. Directional Control Of System

- Reversible Motors
- Series & Parallel
- Load Overrun
- Sequential Operation

6. Speed Control Of System

- Common Methods
- Speed Range

7. Designing With Hydraulic Motors

- Shaft Loading
- Speed Regulation
- Efficiency
- Life Expectancy
- Displacement Calculations
- Torque Required

8. Cavitation & Aeration Problems

- Inlet Restrictions
- Atmospheric Pressure
- Sizing Filters & Strainers
- Pump & Motor Shaft Speeds

9. Troubleshooting The System

- Pumps & Pump Controls
- Motors
- Valves
- Pressure Controls
- Volume Controls
- Relief Valves
- Filtration
- Cleanliness
- Test Ports

10. Heat Removal From The System

11. Start-Up Procedures

12. Hydraulic System Safety

REGISTRATION FORM

PLEASE USE A SEPARATE FORM FOR EACH COURSE # _____

COURSE LOCATION: _____ COURSE DATES: _____

PERSON TO CONTACT FOR CONFIRMATION: _____

STUDENTS: _____

COMPANY: _____ PHONE: _____ EXT: _____

ADDRESS: _____ EMAIL: _____

CITY: _____ STATE: _____ ZIP: _____

STUDENT(S): (___) @ \$1,045.00 PER PERSON \$ _____

CHECK IS ENCLOSED USE OUR PURCHASE ORDER NO. _____

VISA M/C AE # _____ EXP. DATE: _____