

# NFPI Training

## Closed Loop Hydrostatic Transmissions

### COURSE INCLUDES:

Textbook  
Fluid Power Data Book  
Certificate of Completion



2-Day Program  
8:00 A.M. – 5:00 P.M.  
\$1,195 Per Person

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Onsite Programs

### NFPI Training

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): ( \_\_\_ ) @ \$1,195.00 PER PERSON \$ \_\_\_\_\_

CHECK IS ENCLOSED  USE OUR PURCHASE ORDER NO. \_\_\_\_\_

VISA  M/C  AE # \_\_\_\_\_ EXP. DATE: \_\_\_\_\_