523D FM 3179 ROAD • HUNTSVILLE, TX 77340 PHONE 800-704-1066 • INFO@NFPITRAINING.COM WWW.NFPITRAINING.COM

# 1-Day Live Online Hydraulic Troubleshooting

# LIVE ONLINE SEMINAR

Courses Available Throughout the Year

NFPITRAINING.COM

COST: \$595.00 **INCLUDES:** Class Manual Certificate of Completion











- Flow Torque Speed
- Pressure Horsepower

#### **Reading Schematics & Graphic Symbols** 2.

#### **Understanding System Operation**

- System Efficiency
- Advantages & Disadvantages
- **Braking Systems**
- Open Loop & Closed Loop
- Load-Sense
- Steering Systems

## Recognizing the Need for Cleanliness & Filtration

Effects of Contamination Viscosity Effects Micron Ratings

#### 5. **Understanding Flow in the System**

- Slow Or Erratic Actuator Operation Case Drain Monitoring
- Component Wear Effects Of Contamination, Pressure & Heat

## **Diagnosing Plumbing Problems**

- Fittings (NPTF, SAE, JIC 37°, Straight Thread O-Ring)
- Hose, Tubing & Pipe Sizing
- Pressure Ratings

## **Cavitation & Aeration Problems**

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

#### **Troubleshooting Components** 8.

- Pumps & Pump Controls
  - Motors
- Cylinders
- Pressure Controls

Counterbalance Valves

Steering Systems

Valves

## **Pressure Control Adjustments**

- Relief Valves
  - Sequence Valves
- **Brake Valves**

**Braking Systems** 

- **Unloading Valves**
- Pilot Operated Valves Pressure Reducing Valves

#### **Speed Control Adjustments**

- Meter-In
- Meter-Out
  - Variable Displacement
- Variable Speed
- Pressure Compensated
- **Heat Removal from Hydraulic Systems**
- **Start-Up Procedures**

Bleed-Off

**Hydraulic System Safety** 

## REGISTRATION FORM

PERSON TO CON	TACT FOR (	CONFIRMATIC	N:			
STUDENTS:			-			
COMPANY:				PHONE:	EXT:	
ADDRESS:					EMAIL:	
CITY:				STATE:	ZIP:	
STUDENT(S) (	) @	\$595 PER PE	RSON	\$		
☐ CHECK IS ENCLOSED ☐ USE OUR PURCHASE ORDER NO.						
□ VISA	□ M/C	<b>□ AE</b>	#		EXP:	
ENROLLMENT ARRANGEMENTS SHOULD BE RECEIVED A MINIMUM OF SEVEN DAYS PRIOR TO THE SEMINAR DATE						

For more information or to register contact us: 800-704-1066 or email info@nfpitraining.com