

Award-winning

Practical Hydraulics

An intensive, 5-day, hands-on workshop covering mobile and industrial hydraulics.

KEY TOPICS:

- How To Work Safely with Hydraulics
- Introduction to Hydraulics
- Proactive Maintenance
- How To Read Schematics
- How Hydraulic Components Work
- Basic Troubleshooting Skills
- How To Select and Use Hydraulic Diagnostic Equipment
- Lockout and Tagout
- Innovative Design Ideas

Over \$500,000 of state-of-the-art trainers, cutaway models, and visual aids are used in this multiple award-winning, hands-on workshop for a true, hands-on experience!

Award of
★★★★★
Excellence

The most successful hydraulic training workshops in the U.S.A.!

Recommended by
100%
of the people who attend our workshops!

Presented by
David Buffong
of the



Location: Lot # 1 O'Meara Road & O'Connor Drive, Arima, Trinidad West Indies
Telephone: 868-642-4484
Web: www.fpti.org

workshop OUTLINE

SAFETY FIRST without exception!

This is the **ONLY** hydraulic workshop in the country that will show you how to work safely with hydraulics from beginning to end. The following topics will be presented in detail:

- How To Work Safely with Hydraulics
- Basic Fluid Power Principles
- How To Read Schematics
- Hydraulic Pumps
- Pressure Control Valves
- Directional Control Valves
- Check Valves
- Flow Control Valves
- Actuators
- Accumulators
- Contamination Control
- Proactive Maintenance & Filtration
- Closed-loop (Hydrostatic) Systems and more . . .

workshop Reference MATERIALS

All of the materials used in this workshop are written and produced by our own team of hydraulic maintenance professionals.

Workshop Manual- Author: Rory S. McLaren

Comprehensive textbook covering all your workshop material.

Fluid Power Trainer Student Workbook-

Trainer activities; Component comparison data; Pump performance graphs; Valve performance data; Circuit schematics and problem-solving exercises.

An Introduction to Closed-Loop Oil Systems-

A step-by-step approach to learning what you need to know about your closed-loop systems.

A Practical Guide To Filtration for Hydraulic Systems-

Everything a maintenance professional needs to know about filtration.

How To Interpret Fluid Power Symbols-

A handy manual that breaks symbols down to a level that makes them easy to understand. Includes self-test exercises.

Complete Guide to ANSI/ISO Fluid Power Symbols-

Any symbol you may encounter in your hydraulic schematics is in this handy pocket-guide.

WEEK 1 PRACTICAL HYDRAULICS WORKSHOP REGISTRATION FORM- Attend all 5 days for only \$6,500

To register for this workshop by phone, call:

(868) 642-4484

or fax this form to:

(868) 642-1045

- Please enroll the participants listed below for the following 5 day Practical Hydraulics Training Workshop:
- Please contact me regarding an in-plant workshop.
- Please keep me on your mailing list.

WORKSHOP LOCATION: _____

WORKSHOP DATES: _____

PARTICIPANTS: _____

APPROVING SUPERVISOR: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ COUNTRY: _____

TELEPHONE: () _____ FAX: () _____

E-MAIL: _____

- METHOD OF PAYMENT: Company check enclosed.
 Money Order enclosed.
 Bill company- P.O. No.: _____

Fees are Payable In Advance of Workshop!

Please make checks payable to: HIGHTOWER HYDRAULICS, LTD.
A company P.O.# will reserve your space until two weeks before the workshop.
_____ Participants attending @ \$6,500/ea.

IMPORTANT NOTE: TOTAL: \$ _____

DUE TO CLASS SIZE LIMITATIONS, REGISTER EARLY!

In order to maintain an effective student/instructor/trainer ratio, our workshops are limited.

GENERAL INFORMATION

Accommodations are not included in the workshop fee. The FPTI™ has negotiated discount room rates for those attending our workshops. Upon registering for the workshop you will receive a confirmation detailing what you will need to do to complete your hotel accommodations. If it becomes necessary for you to cancel your workshop registration you may do so without penalty up to ten (10) workdays prior to the workshop. Cancellations made less than ten (10) workdays before the workshop will be subject to a 20% cancellation fee. No refunds are given to "no-shows". The FPTI™ reserves the right to cancel or change workshop schedules. If this were to happen, you will receive at least two (2) weeks notice and your choice of a full refund or alternate workshop dates.

Award-winning

Troubleshooting Hydraulic Components Workshop

An intensive, 5-day, hands-on workshop for industrial & mobile maintenance professionals.

- **The only Troubleshooting workshop that will show you how to field-test and analyze ALL hydraulic components safely and effectively.**

Recommended by
100%
of the people who attend our workshops!

The most successful hydraulic training workshops in the U.S.A.!

BEST TECHNICAL WORKSHOP EVER!

AWARD OF EXCELLENCE

BEST WORKSHOP EVER ATTENDED!

Awarded by:

Basin Electric, ND
Phelps-Dodge, AZ
Kennecott Utah Copper Corporation, UT
B.J. Services Company, TX
Cyprus 20-Mile Coal, CO
CAMECO Industries, LA
Vermeer Manufacturing, IA
Sunbelt Rentals, NC
... and more!

Presented by
David Buffong
of the



Location: Lot # 1 O'Meara Road & O'Connor Drive, Arima, Trinidad West Indies

Telephone: 868-642-4484

Web: www.fpti.org

workshop OUTLINE

Over \$500,000 of state-of-the-art trainers are used in this award-winning, hands-on workshop for a true, hands-on experience!

This hands-on workshop should be mandatory for every mobile & maintenance technician in the country. It is the most useful and informative troubleshooting workshop you will EVER attend because you will **know** how to troubleshoot **every** hydraulic component without having to know its specifications. Most importantly, you will learn how to do test procedures without **ever** having to "crack" a connector to check for pressure, or disconnect a hose and exhaust oil to atmosphere to check for flow - a practice that is extremely hazardous and unscientific.

SAFETY FIRST - WITHOUT EXCEPTION!

This is the **ONLY** hydraulics workshop in the country that will teach you how to troubleshoot **all** hydraulic components 100% safely and effectively!

SIGNIFICANT COST SAVINGS

Over 65% of the hydraulic components removed from service are removed unnecessarily because people don't know how to test them. Since you will learn simple techniques that we have developed for testing all hydraulic components, we guarantee that you will reduce the cost of operating your hydraulic system by at least 50%. No more lengthy downtime and waste caused by throwing parts at a problem!

WHAT YOU WILL LEARN

In this intensive, hands-on, dynamic workshop, you will learn how to troubleshoot and test:

- all types of pumps
- directional control valves
- cylinders & motors
- pressure control valves
- check valves
- and much, much more!

GUARANTEE

You will learn more about troubleshooting hydraulic components in this workshop than in any other workshop or school in the country - GUARANTEED! Or it's free! Take the troubleshooting quiz on our website and see if this workshop is for you!

YOUR WORKSHOP LEADER - David Buffong

This workshop is based on the book, 'How To Troubleshoot Hydraulic Components Using Leakage Path Analysis Methods', written by the Director of the Fluid Power Training Institute™, Mr. Rory McLaren. Rory's safety-based test methods are rapidly becoming the standard for testing hydraulic components in the industry.

workshop Reference MATERIALS

Course Workbook- Author: Rory S. McLaren

The most comprehensive study of practical methods for testing hydraulic components ever written. Includes: Trainer activities; test procedures, schematics & problem-solving exercises.

Troubleshooting Hydraulic Components-

Author: Rory S. McLaren

Over 460 pages of "how-to" information with step-by-step procedures, illustrations, on how and where to install your test equipment for the best result. Sample test sheets, blank test sheets for you to complete, troubleshooting analyses after each test, and common symptoms associated with each problem.

WEEK 2 TROUBLESHOOTING HYDRAULIC COMPONENTS WORKSHOP REGISTRATION FORM- Attend all 5 days for only \$7,000

To register for this workshop by phone, call:

(868) 642-4484

or fax this form to:

(868) 642-1045

- Please enroll the participants listed below for the following 5 day Troubleshooting Hydraulic Components Workshop:
- Please contact me regarding an in-plant workshop.
- Please keep me on your mailing list.

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WORKSHOP DATES: _____

PARTICIPANTS: _____

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COMPANY: _____

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