

## Off Site Valve Maintenance Training Registration QD-SLS-07

**Attention:** Valve Maintenance Supervisors, Technicians  
and Training Departments  
**Subject:** Valve Maintenance Training Seminars

Dupill Group offers three (3) day, Hands-On, Valve Maintenance Training Seminars.

Three Days – Hands-On Training

Valve 101 and Valve Maintenance  
Training

Tuition \$1,175 per Person

Limit 10 Students

Class size is limited to ten (10) students. This course is 70% Hands-On.

The scope of the Hands-On Training shall include the following:

- Valve 101
  - Intro to Valves
  - Valve Components
  - Valve Types
  - Valve Configurations
  - Valve Applications
- Valve Packing
  - Material Type
  - Removal
  - Installation
- Integral Valve Maintenance
  - Valve Defects
  - Inspection
  - Lapping
  - Leakage
  - Abrasives
  - Common Practices
- Hands-On Valve Maintenance
  - Lapping Tools
  - Repair Drills
  - Bluing
  - Best Practices



## Valve Maintenance Training Seminar Registration

The Class will run Tuesday, Wednesday and Thursday.

*Registrations should be received 30 days prior to the start of the class.*

### TUITION

Three Day Seminar: \$1,175.00 per person

Tuition covers all directly related seminar expenses for the three (3) days of the seminar. Travel, lodging and other related expenses are the responsibility of each registrant and are NOT included in the tuition.

### PAYMENT

- Company check made payable to Dupill Group
- Company billing – please mail, fax or email a purchase order

**All payment information must be received by Dupill Group in advance**

### CONFIRMATION

Please be sure to have confirmation of your enrollment BEFORE making travel arrangements. If you have not received a confirmation letter prior to the start of the seminar, please call the Dupill Group to confirm your enrollment.

### CANCELLATION

Cancellation notice must be received 30 days prior to start of seminar to ensure a full refund. Cancellations received after this date will be subject to a \$500 service charge. Substitution of attendees may be made at any time. Dupill Group reserves the right to cancel the seminar if there are not enough students to justify holding the class. We need to have a minimum of five (5) participants. Dupill Group reserves the right to cancel seminars at its discretion.

### TAX DEDUCTIONS

U.S. Treasury Regulation 1.625 permits an income tax deduction for educational expenses (including registration fees, travel, meals and lodging) undertaken to maintain and improve professional skills. Please determine how the regulation fits your situation.

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### **NOTICES**

Recording devices are strictly prohibited.

The Dupill Group Training Facility is a non-smoking facility.

We have presented this Valve Maintenance Training Seminar at numerous locations including Nuclear Power Stations, Valve Manufacturers, Local Unions, Ship Building Sites and the U.S. Navy in 14 States and 1 Foreign Country.

### **CLASS HOURS**

Class hours are 8:00AM – 4:45PM with 45 minutes for lunch. The schedule calls for forty-five (45) minutes of instruction time and fifteen (15) minute breaks every hour.

Please complete and return the following registration form in order to secure your spot(s) in the class.

Thank you for your interest in our Training Programs.

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Training Registration  
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## Valve Maintenance Training Seminar Registration

Circle Desired Date: March 27-29, 2018 @ Swedesboro, NJ  
July 31-August 2, 2018 – December 4-6, 2018 @ Leechburg, PA  
(Dates are subject to change)

Location: \_\_\_\_\_  
Name of Attendee: \_\_\_\_\_  
Name of Attendee: \_\_\_\_\_  
Name of Attendee: \_\_\_\_\_  
Name of Attendee: \_\_\_\_\_  
Name of Attendee: \_\_\_\_\_  
Company Address 1: \_\_\_\_\_  
Company Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Country: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

**PAYMENT INFORMATION:** FEE \$1,175.00 per person

Purchase Order #: \_\_\_\_\_  
Check # (Enclosed): \_\_\_\_\_  
Credit Card:  VISA  MC  AMEX      **Security Code**   
Cardholder: \_\_\_\_\_  
Card #: \_\_\_\_\_  
Exp. Date: \_\_\_\_\_

Email or Fax this completed form to: [solutions@dupillgroup.com](mailto:solutions@dupillgroup.com) or Fax 724-845-6887  
OR  
Mail Completed Form to: Dupill Group  
1057 State Route 356  
Leechburg, PA 15656

For questions please call: (724) 845-7300

## **VALVE 101 & MAINTENANCE CURRICULUM**

*(Days and topics may be adjusted or expedited for client's desired focus and instructor's suggestion)*

(Day 1)

### **Valve 101**

- Intro to Valves
- Valve selection
- Valve components
- Valve Types :
  - Gate, Globe, Control, Relief valves
- Different valve configurations
- General Valve applications
- Valve related codes and standards
- Safe Valve Operation
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### **Valve Packing**

- Introduction
- Overview of Material Types & Forms
- Packing Removal
- Installation Procedure
- Practical Session (If Requested or Time allows)

### **Round Table**

- Questions/Answers

(Day 2)

### **Integral Valve Maintenance**

- Intro
- Power Uprates: Materials, Tolerances, and Criteria to installed base components
- Describe and evaluate Typical valve seat defects
- **Understand Inspection Practices**
- **Understand When and How Much to Lap a valve seat**
- **Understand Allowable Seat Leakage**
- **Evaluation of Abrasive Materials**
- **Describe Common ISR practices**
- **Acknowledge ISR Tool Technologies**
- **Understand Mounting methods for an ISR Tool**
- **Describe ISR Techniques**
  - **Procedure: ISR Seat Lapping**
  - **Trouble shooting Low Seat Spots**
  - **Establishing an OD of 3 Degrees**
  - **Grinding Irregular seating surfaces**
  - **Chamfering Sharp Edges on Gate Valves -MOV's**
  - **Low Spots on Tilted Disc (TD) check valves**
  - **Foreign Material Exclusion (FME)**
  - **Remote Control Lapping Operation**
  - **ISR: Major Seat Damage**
- Review Valve Repair Tool(s) Operational Manual(s)

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(Day 3)

## Hands On Valve Maintenance

- The following Enabling Learning Objectives (ELO) of this session is to provide instruction for Hands-on training drills with a minimum of 4 work stations to include all metal seated valve types, (Exceptions, ball and butterfly valve) so that questions and specific techniques pertaining to the objectives can be addressed.
- **Efficiently operate the grinding/lapping machines in accordance with manufactures operation manual(s)for manufacture Model(s):**
  - **LarsLap**
  - **EFCO**
  - Dexter
  - Climax
  - Uni Slip
- Review the purpose, parameters, and rules of the drills as well as stress the importance that drills are not meant to be rushed through.
- Mechanic attendees conduct numerous set up and lapping Drills at Four (4) work stations, Teams of Two (2).
- All Four (4) teams of Two (2) are required to perform at a minimum Two (2) work station Cycles.
- Timed Drills:

STATION A:	10"	Swing Check Valve
STATION B:	8"	Gate Disc
STATION C:	6"	Gate Valve
STATION D:	2"	Globe Angle seat Valve
- A "bluing" inspection demonstration is performed by each Team
- At conclusion of drills a debrief session takes place with Suggestions, Tips, and Feedback from Timed Drills. Any further hands on review will be addressed at this point in the shop.

*Course completion will be attained by discussion, performance, TPE evaluation with a signed TPE document by the vendor instructor and Plant training department representative in the completion of the training objective.*

