



ENVIRONMENTAL TECHNOLOGY

# MECHANICAL SEAL TRAINING

## COURSE DETAILS

This course is designed to give attendees an introduction to correct mechanical seal operation and an insight to root-cause and pump failure modes, accompanied by easy to implement troubleshooting techniques.

Whether new to this field or a seasoned professional looking to refresh their knowledge, this course is designed to give a practical insight into improved plant reliability. The course is suitable for plant operators, maintenance personnel, purchasing personnel and engineers.

Included in the cost:

- Training material presented
- Certificate listing all completed training modules
- Breakfast/Lunch

## SPECIALIST TRAINING

Courses are presented by Chris Dean - the Group Technical Training Officer for AESSEAL® who has been involved in mechanical engineering for over 35 years.

Chris regularly conducts rotating equipment reliability training both at AESSEAL® and at customer premises throughout the world.

Chris's relaxed, but professional approach to the training sessions ensures all attendees leave with the knowledge and skills that can be instantly applied in the workplace.

**ONE DAY ONLY - MARCH 26, 2026**  
**WALKER ART CENTER (SKYLINE ROOM)**  
**725 VINELAND PL, MINNEAPOLIS 55403**

## TOPICS COVERED

### What is a mechanical seal?

- How seals work.
- What is good seal life and am I getting it?
- Why use mechanical seals?
- Seal types and configurations.
- Rotary v Stationary designs.
- Hydraulic balanced and unbalanced seals.
- Single / Dual seals.

### Dual Seals and Support Systems

- Why we use dual seals.
- Protecting the fuse in your system.
- The difference between barrier and buffer systems, and their application.
- Thermosyphon and forced circulation fluid principles.
- Internal seal pumping scroll benefits.

### Centrifugal Pumps: What is a Pump?

- How pump design affects seal and bearing life.
- Alignment and its effect on reliability.
- Shaft deflection.
- Understanding pump curves.
- Relationship between head and pressure.
- The consequences of using an over-sized pump.
- How to troubleshoot pumps without curves.
- Cavitation: types, causes, symptoms and cures.
- Seal Chamber vs. Stuffing Box design.
- Piping systems and their effects on equipment reliability.
- Affinity laws – what are they?

Space is limited so please complete and return the included registration form to reserve your spot! *Discounts available for groups of 5 or more*

**LAST  
CHANCE  
TO BOOK**





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# MECHANICAL SEAL TRAINING

The course cost is \$375 per person or \$350 per person for groups of 5 or more\*. The fee and is payable by Company PO or Credit Card (Visa/MC only). Included in the cost are: training materials presented, a certificate listing all completed training modules plus continental breakfast and lunch.

Individual booking ☐

Group booking ☐

Name: \_\_\_\_\_

Company name \_\_\_\_\_

Address: \_\_\_\_\_

State: \_\_\_\_\_

Zip: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Paying with:

Corporate PO ☐

Credit card ☐

PO number: \_\_\_\_\_

Card type:

Visa ☐

MC ☐

Credit card number: \_\_\_\_\_

Name on card: \_\_\_\_\_

Expiry date: \_\_\_\_\_

Issue number \_\_\_\_\_

Security code \_\_\_\_\_

Billing address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Please return your completed form to Lisa Ladd:

Email: [lisa.ladd@aesseal.us](mailto:lisa.ladd@aesseal.us)

PH: (865) 531-0192

FAX: (865) 531-0571

\* Refunds subject to conditions. Cancellations within 1 week of the course date will be charged in full.

ENROLLMENT  
FORM