

Mechanical Seal Technology: Design, Operation and Troubleshooting

22nd - 25th August 2022

In Person / Online Training

Major Benefits of Attending

By the end of the course, every participant will know how to:

- **Comprehend** the design features and function of each component of mechanical seals
- **Learn** the different design features of mechanical seals, including seal plans in accordance to API 682 standard, aiming to proper specifying of mechanical seal
- **Improve** capability of RCA, aiming to improve reliability of mechanical seals and hence the pumping system where they are installed.
- **Improve** troubleshooting and RCFA (Root Cause Failure Analysis) capabilities of participants, through interactive discussions and demonstrations of several case studies, including dry gas seal

Course Methodology

Client has the option to choose to participate either below method.

Online Course : *This course will be conducted via Zoom.*

Marriot Group Hotel: *This course will be conducted at the hotel with the trainer on site. Participants will need to bring their own laptop. Lunch/Dinner and 2 networking breaks will also be provided.*

Why you Should Attend?

Mechanical seals are one of the most critical components on pumps, where they are extensively used all over industries; Oil & Gas, power generation, fertilizers, chemicals, water supply and many others, covering almost all human activities.

Based on pumped fluid and operation conditions, there is a variety of mechanical seal types. Sophisticated mechanical seal systems have been introduced into industry where toxic, radioactive, or even hazardous hydrocarbon fluids are pumped with zero emission to atmosphere.

It has been proved that mechanical seal failures represent about 39% of total failure causes, accounting for 44% of total pump repair cost.

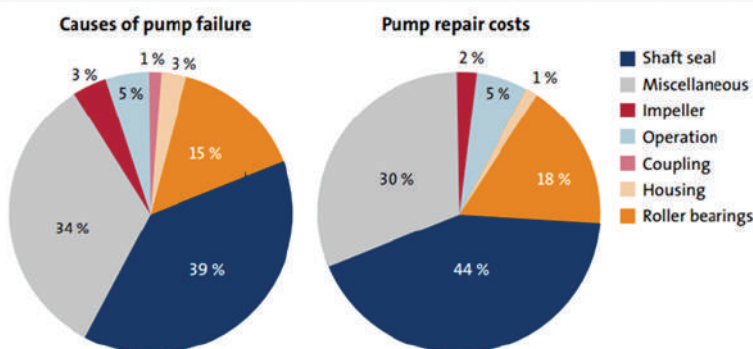


Fig. 5.1: Analysis of pump failure. Mechanical seals account for 39% of pump failures. [1]

Fig. 5.2: Analysis of pump repair costs. Mechanical seals account for 44% of pump repair costs. [1]

Who Should Attend?

- All discipline engineers, especially mechanical and reliability engineers who are involved in operation and maintenance; and root cause failure analysis (RCFA) of mechanical seals
- All project engineers who are involved in approving the specifications and selection of mechanical seals and their plans as per API 682
- Supervisors and senior technicians who are involved in operation and maintenance of mechanical seals
- Others who are interested to learn about mechanical seals

Considering the above, clear understanding of mechanical seal design features, will help in proper selection of mechanical seal, for whom involved in specifying and purchasing new mechanical seals. For those who are involved in operation and maintenance, troubleshooting and root cause analysis capabilities will be dramatically improved.

Organized by:



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For more details, contact hello@fdb.sg