

## AL-Ahmady Office

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# CENTRIFUGAL & POSITIVE PUMP COURSE

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## COURSE CONTENTS

### 1) Centrifugal Pump

- Construction of centrifugal pumps
- Theory of operation, sealing and bearings.
- RCFA, maintenance and reliability.

### 2) Positive Displacement

- Construction and parts' functions.
- Maintenance and reliability.

### 3) Condition Monitoring

- What to monitor.
- How effective is monitoring.
- Hands-on training.

### 4) Operating procedures

- How to increase reliability.
- Self monitoring technique.
- How to avoid equipment failure.



## INSTRUCTOR

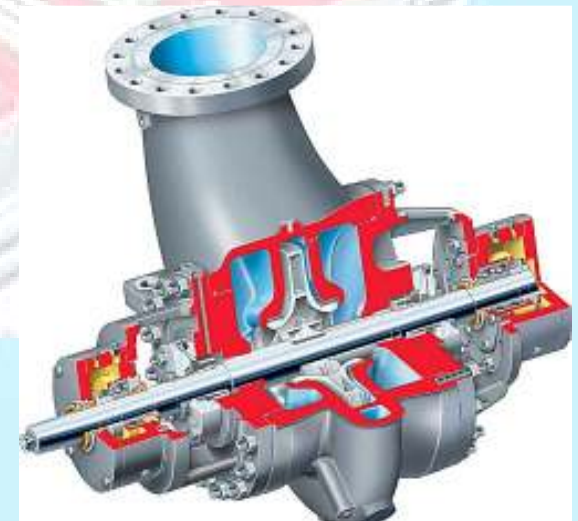
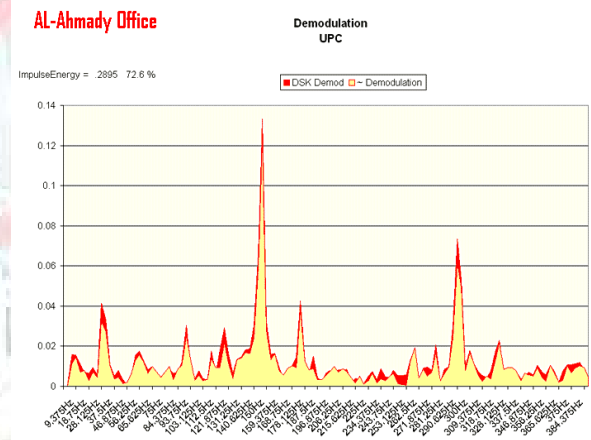
Ahmed Nasr Omar has been working as a reliability engineer and consultant for more than 35 years. He has heavy experience in major international companies such as Saudi Aramco, KNPC, Petromin, Total, NPC, Shell and more. He has his degree from B.H.California and has hands-on practice for all rotating equipment and turbo-machinery, have TOT

**DURATION: 5 days**



## Training & Consultation

P.O.Box 298, Suez, Egypt



Different types of pumps, advantages & disadvantages

## Reliability is everyone's responsibility

### WHY THIS COURSE

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It is important for every mechanical and chemical engineer, technician and supervisor to attend this course to be updated with the world's latest technologies in the field of Pumps.

1. This course will contain pump's best practices used during instructor service in international companies.
2. It will contain real case studies from several areas of industry.
3. It will discuss and highlight HAZARDS related to pumping systems.
4. It will discuss the different types of pumping systems and how to avoid failures with simple methods.
5. It will discuss parts' functions and their maintenance such as: Seals, Shafts, Valves, Impellers, Bearings, and RCA etc.
6. It will discuss the condition monitoring related to each type.
7. It will discuss limits and standards for rotating equipment.

### BENEFITS

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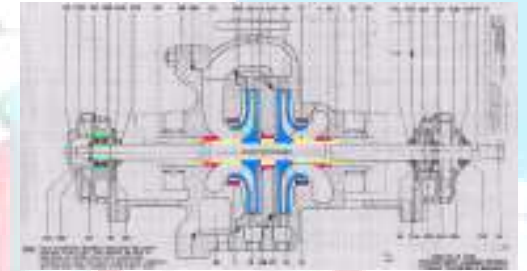
1. Attendees will be able to understand different types of pumps.
2. Attendees will learn how to evaluate problems and take correct decisions.
3. Maintenance personnel will be able to take the right maintenance decisions, choose the correct action plans and use the right tools.
4. Operators will be able to evaluate the conditions of the equipment before taking actions.

### HANDOUTS

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Attendees will have both electronic and hard copy of the course contents. Valuable write-ups and best practices used in industry. Details of devices can be used by operations and maintenance personnel in the plan.

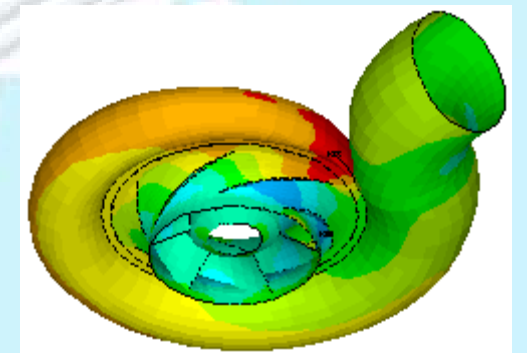
**Safety is our goal**



Full explanation and case study about real equipment failures



Case study from real plant equipment



Pump Animation