Maintenance of Gas Compressors

An Intensive 3 Day Training Course

15 - 17 May 2017, Moscow
11 - 13 Sep 2017, Aberdeen

www.petroknowledge.com
**WHY CHOOSE THIS TRAINING SEMINAR?**

This training seminar will present the key activities involved in operation, control, maintenance and troubleshooting of gas compressors. These activities are vitally important for the efficient and safe operation of the plant.

This training seminar is intended to familiarize engineers, technicians and operators with compressor condition monitoring techniques which are used as a technical approach to failure prevention. The training seminar will also discuss vibration measurements and guidelines for preventive, predictive and corrective maintenance. Keeping compressor vibration under control makes a big impact on the long life of bearings, seals and other elements which improve compressor reliability and safety. The training seminar will provide the best practices for various maintenance techniques including overhauling and repair. Problem solving and troubleshooting techniques as well as the methods for extending the lifetime of equipment will be discussed and explained.

The training seminar will feature:

- Best practices for preventive, predictive and corrective maintenance
- Root cause analysis of compressor vibration
- Guidelines how to diagnose the level of deterioration of bearings
- Safe operation of compressors and driving machines
- Techniques for problem solving and troubleshooting

**WHAT ARE THE GOALS?**

By the end of this training seminar, participants will be able to:

- Implement the correct preventive and predictive maintenance method.
- Apply elements of condition monitoring
- Interpret results of compressor vibration
- Better understand bearing failures
- Use methodologies for problem solving and troubleshooting

**HOW WILL THIS TRAINING SEMINAR BE PRESENTED?**

This training seminar will be conducted along workshop principles, which will combine lectures with active delegate participation including problem solving and discussions. Several practical examples will be presented, and the focus will be on technical principles and clear technical reasoning.

Workshops will include case studies and will be presented with explanation on operational and maintenance problem solving methodology. Various examples from real-life technical practice will be included and combined with video animations to help gain the confidence in making right decision regarding efficient preventive and predictive maintenance and long operational life.
DAILY AGENDA

Day One

- Overview of Operational Characteristics of Process Gas Compressors
- Monitoring of Compressor Operation and Performance Parameters
- Typical Problems in Operation of Centrifugal and Axial Compressors
- Methods for Surge Prevention
- Typical Problems in Operation of Screw Compressors
- Compressors Control Systems and Instrumentation
- Workshop: Problem Solutions

Day Two

- Compressor Protection and Safety System
- Compressor Condition Monitoring System
- Vibration Monitoring and Control Measurements
- Vibration Root Cause Analysis
- Bearing Failures and Lubricant Oil Analysis
- Mechanical Seal and Dry Seal Maintenance
- Workshop: Problem Solutions

Day Three

- Preventive, Predictive and Corrective Maintenance: Scope & Procedure
- Inspection of Most Critical Parts
- Leak Control and Prevention
- Problem Detection and Diagnostics: Root Cause Analysis
- Troubleshooting Procedures in Normal and Abnormal Conditions
- Overhaul and Repair Options
- Conclusions and Summary
Maintenance of Gas Compressors

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This fee is inclusive of Documentation, Lunch and Refreshments

Please use BLOCK CAPITALS to fill in this form. It is important that you read carefully through all information before starting to complete the form.

REGISTRATION DETAILS

Family Name: ___________________________________________
First Name (Mr./Ms.): ____________________________________
Position: ________________________________________________
Company: _______________________________________________
Mailing Address: ________________________________________
Telephone: __________________ Mobile: __________________
Fax: __________________ Email: ____________________

AUTHORISATION

Authorised By: _________________________________________
Position: ______________________________________________
Company: ______________________________________________
Mailing Address: ________________________________________
Telephone: __________________ Mobile: __________________
Fax: __________________ Email: ____________________

BOOKING TERMS & CONDITIONS

Booking
- Bookings for courses can be made via our website (petroknowledge.com) or by contacting our Registration Desk on +971 2 5577389 or at reg@petroknowledge.com
- For on-line bookings, please select the course that you require and click on the “Register Now” button, following the instructions step by step
- Upon receipt of booking in order, enrolment on the respective training course will be confirmed by Registration Team with all necessary documentation

Invoicing and Payment
- Our fees include course presentation, relevant materials, physical & digital documentation, lunch and refreshments served during entire training. Accommodation charges are not included in the course fees
- Course fees are payable upon booking unless a valid, authorized Purchase Order is provided and accepted
- Invoices will be sent via email/courier to the ID/name and address provided
- We prefer to have the fees payment in our account before the start of training course. However, if your company has a different payment policy, the same should inform us in advance
- The currency of fees is in US Dollars (USD). Payments can be made in USD or UAE local currency AED (Arab Emirates Dirhams) either by Bank Transfer or by Credit Card. Our Bank Account details will be provided on the Invoice
- Please note that we do accept payment by cash, in USD or AED, only for the last minute bookings

Cancellation of Courses
- It may be necessary for PetroKnowledge to amend or cancel any course, course times, instructors, dates or published fees due to unforeseen circumstances and we reserve the right for such changes
- Any amendments will be advised before the course start date and any bookings already paid in full will not be subject to increased fees

Cancellation by Client
- Once you have completed your booking, received your confirmation of enrolment and a dated payment Invoice, you are deemed to have a contract with PetroKnowledge. You reserve the right to cancel this contract given the below terms
- All cancellations must be received in writing at reg@petroknowledge.com and info@petroknowledge.com at least 14 days prior to the training
- After the cancellation period has expired, consideration may be given, on a case to case basis, if a registered delegate nominates a substitute on the same course, shifts to next session of the course or moves to a new course
- For a cancellation request made on or before the statutory 14 day cancellation period, a refund may be given or a credit note issued which can be used against future course fees
- A 25% administration fee (of the total course fee at the time of booking) will be charged for any cancellations made outside of the statutory cancellation period

Attendance Certificate
- The daily course schedule should be accurately followed to ensure undeterred implementation of our training
- All delegates, who participated in their course throughout, will receive the Certificate of Completion on the last day
- Please report any foreseeable absences to a PetroKnowledge representative or to your sponsors directly
- An absence of three (3) or more sessions of the course will invalidate your eligibility for the Certificate of Completion

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