



MU161: Voith Coupling Overhaul



Training Description:

This intensive course covers a complete and up-to-date overview of voith coupling overhaul. It covers the principles of power transmission and the types of coupling, constant fill and variable; the couplings and lift transportation appliances; the draining of fluids and proper disassembly procedures; and the correct measurement in examining the components including tightening torques and fusible plugs.

During this interactive course, participants will learn how to perform bearing measurement and installation, gears installation and operating fluids selection; prepare the assembly check report and the input and output hubs; install and design tolerances, commission report, maintenance plan and devices; troubleshoot spare parts and identify turbo coupling including the latest technology (Vorecon).

Training Objectives:

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

- ✓ Apply systematic techniques on voith coupling overhauling
- ✓ Discuss the principles of power transmission and identify the types of coupling, constant fill and variable
- ✓ Remove couplings and lift transportation appliances
- ✓ Clean couplings by draining the fluids and apply proper disassembly procedures
- ✓ Perform correct measurement in examining the components as well as tightening torques and fusible plugs
- ✓ Employ bearing measurement and installation, gears installation and operating fluids selection
- ✓ Prepare assembly check report and mount the input and output hubs
- ✓ Install and align tolerances, commission report, illustrate maintenance plan and monitor devices
- ✓ Troubleshoot and discuss the spare parts information turbo coupling covering the latest technology (Vorecon)

Training Designed for:

This course is intended for Mechanical, Hydraulics & Hydronics, Plant, Machinery, Maintenance and Materials Engineers, Design Engineers, Superintendents, Supervisors, Senior Design Draftsmen, Draftsmen and other Technical Staff who are involved in the overhauling, maintenance, operation, inspection and troubleshooting of couplings.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Principles of Power Transmission
- ❖ Types of Couplings – Constant Fill & Variable
- ❖ Removing the Coupling
- ❖ Lifting Transportation Appliances

DAY TWO:

- ❖ Cleaning the Coupling – Drain the Fluids
- ❖ Disassembly Procedure



- ❖ Measure – Examine the Components
- ❖ Tightening Torques

DAY THREE:

- ❖ Fusible Plugs
- ❖ Bearings Measurement – Installation
- ❖ Gears Installation
- ❖ Operating Fluids Selection

DAY FOUR:

- ❖ Assembly Check Report
- ❖ Mounting the Input-Output Hubs
- ❖ Installation & Alignment Tolerances
- ❖ Commissioning Report
- ❖ **Practical Sessions**
 - This hands-on and includes real-life case studies and exercises

DAY FIVE:

- ❖ Maintenance Plan
- ❖ Monitoring Devices
 - MTS Mechanical Thermal Switch Unit, BTS Non-Contacting Thermal Switch Unit
- ❖ Troubleshooting
- ❖ Spare Parts Information Turbo Coupling
 - The Latest Technology (Vorecon)
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

Training Requirement:

“Hands-on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Please note that the above topics can be amended as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.





Training Fees:

As per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department

