



TURBOMACHINERY TRAINING SEMINAR



“Turbomachinery Couplings”

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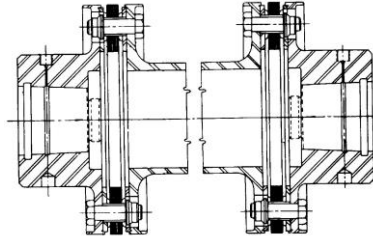
Remote via. Zoom

2023



Coupling basics, Case Studies, Troubleshooting & Problem Resolution

- Coupling basics, definition
- Coupling Selection
- Balancing
- Interface to shaft
- Service Factor
- Alignment
- Torsional Dynamics
- Coupling failures



**TAKE ADVANTAGE OF THIS
COUPLINGS AND EASY, PRACTICAL
METHODS TO TROUBLESHOOT
TURBOMACHINERY COUPLINGS.**

“Good Seminar. Improves my analytical knowledge. Will save the company money & time.” Sheridan Suleiman, Sarawak Shell

People Who Should Attend This Seminar

The people attending the course should be technical personnel interested in better understanding turbomachinery couplings (operators, engineers & technicians, reliability specialists, project engineers, equipment specialists and planning engineers).

*“Difficult subject made easy to understand – Excellent work!”
Showkath Ali K. C., Qatar Petrochemical Co.*

**FOR THE SEASONED ENGINEER AS
WELL AS THOSE NEW TO THE
SUBJECT OF TURBOMACHINERY.**

Course Objective

Basic turbomachinery coupling theory and maintenance and easy, practical methods to troubleshoot turbomachinery coupling problems. Improving plant production and reducing maintenance costs.

Course Materials: “Compressor Performance”, access to training slides and other printed material.

Time Schedule

Seminar duration: 3 days for 4 hours each day. The seminar will be presented by invitation using Zoom.

“Notes, book & software are excellent. I still use the notes and text from your course regularly in my work.” Hosam Hassan, Praxair, Toronto

Program

Following subject areas are covered over a three-day program. A tentative schedule is shown below.

*“...All in all the course is excellent with a lot of valuable information being transmitted.”
Scott Schultz, Chart Energy & Chemicals, The Woodlands, Texas*

- Coupling Basics
- Coupling Types
- Coupling Comparison & Selection



- Service Factor
- Alignment
- Balancing
- Interfacing to shaft
- Torsional Dynamics (Rotor Dynamics)
- Coupling Maintenance and Condition Monitoring •
- Coupling Safety
- Coupling Failures & Trouble Shooting •



Q & A: Review in detail questions about coupling issues and go over specific questions and problems brought to the training seminar.



"I learned a lot!" Jasmin Tremblay, Ultramar (Valero), St. Romuald, Quebec

"..overall good job." Damien Parson, Occidental Chemical, Geismar, Louisiana

"Nice lecture & content. Helpful to my future work." Frank Yuan, Chart Energy & Chemicals, The Woodlands, Texas

Instructor: Kumar P.

Mr. Kumar is associated with Flexware. Inc as an aerodynamist and software tools coding and development engineer. He is involved with the development of compressor aerothermodynamics tools for centrifugal compressor design, field testing and performance estimations of compressors per PTC codes. He has been involved in the tuning and troubleshooting of loading, surge controls and air/gas audits for performance optimization.

Mr. Kumar is a certified Samsung Techwin Compressors installation and commissioning engineer. Prior to working with Flexware, Mr. Kumar was with ELGI Equipment, India where he was involved in the designing of Industrial Reciprocating Compressors and Screw Compressors. He also formulated & led a team for development of Turbo compressors and established design methodologies meeting API Codes. In the subsequent experience, he is involved with refrigeration compressor subsystems and mechanical design. He led test plans for validation of compressors with new refrigerants and performance improvising programs.

Kumar received his Masters Degree from the National Institute of Technology, India specializing in the Design of Thermal Power Equipment. He attended Texas A&M Short courses on Compressor Aerodynamics and he has conducted hands on training for Engineers.

"Thank you for the heat balance methodology for condensing turbines. I can save some money for Shell." Clay Crook, Sarawak Shell Berhad

Client Listing: AdvanSix, Aramco, Astron Energy, British Petroleum, Chart Energy & Chemicals, ConocoPhillips, Consumer Coop Refineries, Canadian Natural Resources, Dakota Gasification, Dibran GmbH, ExxonMobil, Foster Wheeler, Full System Engineering, GE Oil & Gas, John Crane, Hess Oil, Kop-Flex, Linde Engineering, Meco, Motiva, Nalco, Occidental Chemical, Orinoco Iron, Petro-Canada, PDVSA, Praxair, Proman, PTT Exploration & Production Co., Qatar Petrochemical Co., RasGas, Sadara Chemical, Shell Chemical, Sherritt Metals, Sinclair Oil, Sincor, Sunoco, Syncrude Canada, Tata Chemicals, Turboaleaciones, Valero

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<u>#</u>	<u>Item & Description</u>	<u>Price Each</u>	<u>Quantity</u>	<u>Total Price</u>
1	1) - Turbomachinery Couplings	\$810.00		
subtotal				
6% Sales Tax (Pennsylvania Locations only)				
Total Amount Due				

We will send an invoice with credit card interface.

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