



Energy Conservation and Equipment Reliability with Ultrasound Technology Seminar

Agenda / Qatar - Wednesday 28th February 2024

Approach:

Airborne and structure-borne ultrasound technology has certainly become a major player in condition monitoring. Once considered just a leak detector, more maintenance and reliability professionals are realizing the benefits associated with using ultrasound for reducing energy waste and improving asset availability in plants. They expand the concept of "Condition Monitoring" to include much more than basic mechanical fault inspections. Since these instruments detect friction, ionization and turbulence, their inspection capabilities range from trending bearing condition to determining lack of lubrication, locating compressed air leaks and detecting arcing, tracking and corona emissions in both open and enclosed electric equipment.

Motivation and objective:

Our aim is to deliver a successful model. Let's dive into some ultrasound best practices extracted from real world case studies that illustrate how come up with creative solutions

Day 1:

- Start of Training session
- Opening remarks
- Ultrasound technology – Introduction, concepts and characteristics
- Energy Conservation Campaigns using Ultrasound Technology
- Compressed Air Isn't free? The hidden costs of Compressed Air/Gas Leaks
- Why Do Steam Traps Fail & How we use Ultrasound for steam traps and valves inspection
- break
- Ultrasound Electrical Inspection Safety & How to avoid Arc Flash in Plant.
- Ultrasound electrical inspecting PD, corona, tracking, and arcing in closed cabinets.
- The ABCs of Using Ultrasound to Rotating Equipment & Monitor Bearings case studies
- break
- Rotating Equipment Inspection / How Many More Months Will It Run?
- How to use ultrasound to improve lubrication practices case studies
- How Maintenance & Reliability professionals around the world using Ultrasound.
- Ultrasound Online IIOT Solutions
- End of Training session



Time of Seminar:

3 Hours

Cost of Seminar:

Free of Charge, technology awareness class.

Speaker:

Ahmed Moataz:

Middle East Regional Manager at UE SYSTEMS USA Ahmedm@uesystems.com

UE SYSTEMS USA:

The Most Trusted Source in Ultrasonic Plant Reliability & Energy Conservation Manufacturers of famous Ultraprobe ultrasonic detection instruments since 1973 For over 40 years, UE Systems Inc. is the worldwide leader in airborne/structure borne ultrasound instruments www.uesystems.com

Further information:

Hope the above information will be useful to organizing the workshop program at your end, if you need further information / clarification, please feel free to contacting us.

Planned follow-up:

A certificate will be awarded to all participants.



Ahmed Moataz Brief Bio:

Name: Ahmed Moataz

Job Title: Middle East and North Africa Regional Manager at UE Systems USA.

Certifications:

- Airborne/Structure borne Ultrasound ISO Category I and LEVEL I
- Airborne/Structure borne Ultrasound ISO Category II and LEVEL II
- Airborne/Structure borne Ultrasound ISO Category III and LEVEL III
- Vibration Analyst ISO Category II and ASNT Level II - Reliability Improvement and Condition Monitoring
- Asset Reliability Practitioner (ARP) ISO CAT I

Education & Expertise:

- **Bachelor's degree**, Mechanical Engineering.
- **Master's degree: MBA Master of Business Administration**
- More than 12 years' Experience in the field of Condition Monitoring and Reliability.
- Conducted more than 450 Ultrasound Technology case studies, training courses and workshops in different plants & Industries all over the Middle East Region during the last 10 years:

Contact Details:

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