A TCS Company

octara

Training | Consultancy | Digital Transformation

BEARING SYSTEM DESIGN

March 10, 2022 | Regent Plaza, Karachi | 10:00am to 5:00pm*

WORKSHOP OVERVIEW:

Bearing system design is a one-day training workshop specially designed for beginners and entry-level & experienced engineers who are working in planning, design, mechanical, maintenance departments or are involved in design work or in the maintenance of machines / industrial applications at an industrial plant site.

In this session, participants will learn about fundamental knowledge of bearing types, selection criteria, selection of the right fit for shaft & housings, best lubrication practices, basics of how to inspect damaged or failed bearing, and how to do calculations regarding bearing design matrix.

KEY BENEFITS:

In this Program Participants will learn:

- Basic knowledge of bearing types, sizes, nomenclature, parts, functionality & selection criteria
- Basics of application engineering, machine design & reading technical drawings
- How to select, calculate and design bearing fits on shaft and housing
- How to select the right bearing for the right application and housing
- How to select the right housing, locating or non-locating bearing and seals
- How to install and uninstall bearing on any kind of shaft or in any housing set
- How to calculate loads on any bearing in any industrial fan application
- How to calculate the lubrication quantity, interval, and method of re-greasing
- How to find the correct bearing designation from its sizes, sample, or drawing
- Basics of bearing damage analysis
- Best practices of handling and using rolling element bearings
- Able to write professional reports related to bearing applications and damages

PREMIUM BENEFITS:

- Will get the complete presentation copy to conduct the session at your own organization
- 1 free of cost, bearing root-cause damage analysis report of any failed bearing at your site



Facilitator:
KHURRAM SHAHZAD

WHO SHOULD ATTEND?

This training session is specially designed for the following professionals;

- Mechanical / Electrical engineers
- Planning engineers / Maintenance engineers Condition monitoring / Reliability engineers
- Technical staff working at any plant / Technical supervisors

Only Vaccinated Participants are eligible to attend the workshop

***Date of training program is subject to change as per the guidelines from GoP on COVID_19**

...only from Octara!!!

For Details & Registration contact

Sarim Atique at: sarim.atique@octara.com, Mobile 0345-8949470

info@octara.com teamoctara octara.com Octara - A TCS Company

Helping You Succeed!

AGENDA:

INTRODUCTION
Course, Trainer & Participants Introduction
Pre-assessment - Testing

BASIC BEARING KNOWLEDGE
- Bearing basic knowledge
- Bearing designation system

FITS & TOLERANCES
- Shaft Fits & Tolerances
- Housing Fits & Tolerances

MOUNTING / DISMOUNTING
- Mounting & Dismounting Techniques
- Errors & Troubleshooting

BEST LUBRICATION PRACTICES
- Calculating relub. quantity & interval
- Selecting right lubricant for right bearing

BEARING LIFE CALCULATIONS
- Understanding application needs
- Calculations formulas and apps

BASIS OF BEARING DAMAGE ANALYSIS
- Damage methodology
- Damage modes - Classification

CLOSING SESSION
- Video Testimonials / Recap / Post Testing
- Feedback. Certificates. Data Sharing



WORKSHOP FACILITATOR:
Khurram Shahzad

Khurram is a Mechanical Engineer & M.B.A - marketing, having 22 years of work experience in the corporate industry in Pakistan & Europe. Currently, he is serving as Country Manager - Pakistan at RKB Europe, a Swiss-bearing manufacturing company present in more than 60 countries globally.

In the past, he has served at SKF, Tuwairqi Steel, and Mughal Steel in senior positions as plant manager, project manager, maintenance manager, production manager, application engineering specialist, technical sales, design & development.

He has traveled to Asia, the Middle East & Europe for business & professional growth. He has completed specialized training from abroad including; Application Engineering level-I from SKF Thailand, Application Engineering level-II from SKF Singapore, Spherical Roller Bearing design & development from SKF Malaysia, Bearing Housing maintenance from HFB Germany, Laser Alignment from Easy Laser-AB Sweden, Bearing Maintenance from BEGA Special Tools Holland, & Bearing Failure Analysis from SKF Thailand & RKB Switzerland.

He has vast experience and exposure in not only teaching bearing technology courses but also has conducted onsite bearing root cause damage analysis at more than 200 industrial clients with hands-on experience. The major application of bearing damage analysis is; motors, pumps, compressors, vibrating screens, kiln, raw mill, roller press, conveyors, crusher, preheating fans, cooler fans, rolling mills, feed mills, textile machine applications & many more.

He has this distinction to conduct training sessions in almost all major industrial segments & organizations across Pakistan. This exposure makes him a specialized trainer, having in-depth knowledge & engaging delivery of the training content.

He specializes in creating rapport with participants within a few minutes to engage them for a better learning experience. That's the reason that participants not only learn the concepts but also enjoy his session at the same time.

He has been teaching training courses; bearing basic knowledge, bearing designation system, bearing fits & tolerance, bearing system design, bearing lubrication management, maintenance management, maintenance strategies, bearing life calculation, laster alignment, bearing mounting & discount techniques, and above all Bearing Root Cause Damage Analysis to the participants coming from, cement, steel, sugar, textile, fertilizers, refineries, power/energy, and food & beverages.

He is known to convert complex topics into easy-to-understand versions by using human psychology techniques and using local/basic examples in the local language for the participants.

Major training clients include; PepsiCo, Millat Tractors, Millat Equipment Ltd, Mughal Steel, Century Paper & Board Mills, ICI Pakistan, Servic Shoes, PARCO, K-Electric, BioTech Ltd & Evyol Group.

During the training session, he always asks to bring the damaged bearings so that the bearing damage analysis can be done then and there for the quick learning of the participants. In Pakistan, he is considered to be an authority in conducting bearing root cause damage analysis across industrial segments.

Khurram has trained following clients

PEPSICO · Millat Tractors Limited · A Tradition of Quality MUGHAL STEEL · Century Paper & Board Mills Limited · KE · PARCO · Servis The star in your life · Evyol Group Customer Driven · ICI Pakistan Ltd.

Group photo of Khurram's Training recently deliverd



Workshop Investment

PKR 19,500/-
+SST Per Participant

Group Discount Available

Fee Includes:
- Hotel Venue for Training
- Course Material • Certificate of Attendance
- Lunch & Refreshments • Business Networking
- Post-Workshop Advisory Services
- Membership for TCS Octara WebMall+ (Group)
- Value Added Octara Loyalty Card*

*Entitles card holder to 20% discount on all future Octara Trainings and also more discount on other TCS Services

Bring this program In-house at attractive discount

This workshop can be customized to suit specific needs of your organization which may lead to significant savings.
Please contact Sarim Atique at sarim.atique@octara.com or call at 0345-8949470

A TCS Company
octara
Training | Consultancy | Digital Transformation

For Registration & Details:

Karachi: 021-34547141, 34520093, 34536306
info@octara.com www.octara.com teamoctara octaratrainings
Octara - A TCS Company teamoctara octaratrainings