



UNIVERSITI KUALA LUMPUR
MALAYSIAN SPANISH INSTITUTE

(The contents and other related details in this form is used for publication purpose only. Training module will be given to participants upon registration)

Course Title: BEARING TECHNOLOGY & MAINTENANCE		Course Code	:	MEC 113
Course Background/Summary : Ball bearings are rotational components that contribute to the high performance and lifetime of mechanical assemblies. In all, but the most low-end of products, bearings are used with parts that needs to rotate. Different types of bearings exist for different purpose. Today, bearing design continues to progress with advanced materials and new geometries enabled by computer-aided design (CAD). Better understanding of bearing design especially from technology & maintenance perspective, nonetheless, can be very critical to ensure the system performance, durability and productivity.				
Course Objectives:				
<ul style="list-style-type: none"> • Understand the basic theory and practical of bearing technology and maintenance • Identify and optimize the application of bearing at work place. • Enhance individual competencies and knowledge of basic bearing applications and design. • Analyze and predict the capability and requirement of bearing in real working condition 				
Target Audience:				
<ul style="list-style-type: none"> • Service, maintenance, machine repair, or plant/facility staff of an industrial plant, public utility or commercial building which uses bearings and related equipment. • Engineers and technicians at industrial plants and facilities responsible for bearing performance and reliability. • Teaching staffs (including vocational and technical teachers). 				
Course Duration		:	Min:3 days, Max:5 days	
Course Contents		:		
No	TOPICS			
1	<ul style="list-style-type: none"> • Basic Theory 			

UniKL MSI can also customize existing short courses and develop new courses to meet your personal training needs and requirements. The course duration serves as a guideline for your reference.

Please forward enquiries to Centre for Advancement & Continuing Education (ACE), University Kuala Lumpur (Malaysian Spanish Institute), Kulim Hi-Tech Park, 09000 Kulim, Kedah or via fax to:04-4032539 or email to syazrah@unikl.edu.my or call 04-4035199 / 200 (ext:112 / 185)



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	<ul style="list-style-type: none">• Bearing Function & Application• Tolerance, Fit & Clearance• Assembly & Disassembly• Lubrication• Maintenance of Bearing
2	<ul style="list-style-type: none">• Bearing Failures & Solution• Load & Life Rating• Equivalent Bearing Load• Bearing for Cyclic Load & Speed• Bearing Analysis using Computer Aided Engineering• Bearing Inspection• Rolling Element Bearing• Journal Bearing• Thrust Bearings• Tapper Roller Bearing• Selection of Bearing• Hydrodynamic Theory• Bearing Design Factor• Design Procedure• Mechanical Aspect of Bearing Design• Heat Balance
3	<ul style="list-style-type: none">• Bearing Failures & Solution• Load & Life Rating• Equivalent Bearing Load• Bearing for Cyclic Load & Speed• Bearing Analysis using Computer Aided Engineering• Bearing Inspection

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COURSE STRUCTURE:	
Practical :	60 %
Theory :	40 %

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