

Bearing Maintenance

Course outline

- INTRODUCTION
- PRINCIPLES OF FRICTION
- ROLLING ELEMENT BEARINGS
- FUNCTION OF BEARINGS
- CATEGORIES OF BEARINGS
- AXIAL LOAD OR RADIAL LOAD
- SLIDING BEARINGS
- PLAIN BEARINGS
- CIRCUMFERENTIAL GROOVE BEARINGS
- PRESSURE BEARINGS
- CHARACTERISTICS OF BEARING MATERIAL FOR SLIDING BEARINGS
- ROLLING ELEMENT BEARING CLASSIFICATIONS
- ROLLING ELEMENT BEARINGS AND TOLERANCES
- BEARING LOADS
- RADIAL LOADS
- AXIAL LOADS, OR THRUST LOADS
- COMBINATION LOADS
- BEARING LIFE
- STANDARD BALL BEARING COMPONENTS
- OPTIONAL BEARING COMPONENTS
- BASIC BOUNDARY DIMENSIONS
- LOAD CARRYING SURFACES
- BALL BEARINGS TYPES
- THE BASIC BEARING NUMBER SYSTEM

➤ JOURNAL BEARING DISASSEMBLY, INSPECTION AND REASSEMBLY

- BEARING DISASSEMBLY
- Inspection
- FITTING A NEW BEARING
- REASSEMBLY

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Technical and Vocational Training Corporation

Certificate No. 224576305341812

➤ TILTED PAD THRUST BEARING

- TILTED PAD THRUST BEARING CONSTRUCTION
- TROUBLE SHOOTING INTRODUCTION

➤ LUBRICANTS AND THEIR APPLICATIONS

- FUNDAMENTALS OF LUBRICATION
- OIL COMPATIBILITY
- OIL TESTING AND ANALYSIS
- OIL PURIFICATION AND FILTRATION
- OIL OPERATING TEMPERATURE
- GREASE LUBRICATION
- GREASE COMPATIBILITY
- GREASE APPLICATION
- LUBRICANT SELECTION
- SAFETY
- BEARING LUBRICATION
- AMOUNT OF LUBRICATION (OIL LEVEL)

LUBRICATION SYSTEMS

- CONSTANT LEVEL OILERS
- BATH OR WICK
- SPLASH
- AIR/OIL MIST
- OIL JET SYSTEM
- CIRCULATING-OIL LUBRICATION
- DRIP-FEED LUBRICATION
- HYDRAULIC LIFT LUBRICATION

➤ BEARING INSTALLATION AND REMOVAL

- THE IMPORTANCE OF CLEANLINESS
- PROPER TOOLS
- MOUNTING METHODS FOR BALL BEARING
- AXIAL LOCATION OF BEARINGS

➤ COMMON BEARING PROBLEMS

- FAILURE ANALYSIS: BALL BEARINGS
- SIDING OR FLUID FILM BEARINGS FAILURES AND MAINTENANCE

➤ FITS AND TOLERANCES

- BEARING FIT
- TOLERANCE
- INNER RING MOUNTING METHODS
- BEARING HOUSINGS

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