

BEARING & LUBRICATION ESSENTIALS

INCREASING PERFORMANCE
REDUCING COSTS

**BOOK
YOUR PLACE
TODAY**

COURSES ARE
PROVIDED BY
HIGHLY QUALIFIED,
**TIME SERVED
ENGINEERS**

Sign up to our **Bearing and Lubrication Essentials** course covering all aspects of installation and maintenance.

ERIKS understand that true reliability is more than simply continuous operation. It's a continuous level of performance, minimal energy consumption and predictable lifespan.

Our wealth of knowledge and expertise in bearing and lubrication applications means we are ideally placed to offer practical training that can make a significant difference to improve reliability, increase performance and total cost of ownership.

And that is a primary reason why this course "Bearing and Lubrication Essentials" is now available nationwide from ERIKS.

- Training provided at locations throughout the UK, or our engineer can visit your site
- Training conducted by accredited ERIKS Engineers
- Content created by the industry for the industry
- Experience ERIKS practical know-how

Recommended for maintenance engineers

During the course delegates will learn how to install and maintain bearings to achieve:

- Increased bearing life in applications
- Understand correct product selection
- Increase machine productivity (greater uptime)
- Lower life cycle costs

**See overleaf
for the full course content...**

www.eriks.co.uk

0845 006 6000



know-how makes the difference

ERIKS

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All fitting and removal tools, including bearing heaters and lubrication products discussed on the day are available to purchase separately.

Enquire for more information.

COURSE CONTENTS

CHAPTER 1 INTRODUCTION TO BEARINGS & LUBRICATION

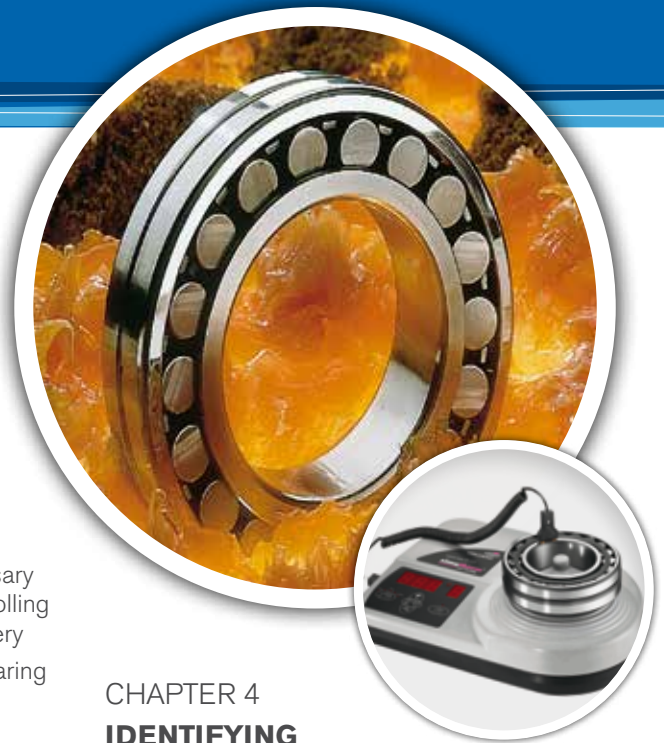
- Attendees will learn the skills necessary to successfully install and maintain rolling element bearings in rotating machinery
- Understand basic rolling element bearing concepts
- Identify bearings for replacement
- Choose appropriate bearing removal method
- Determine if associated components are useable
- Choose appropriate installation method
- Properly install and lubricate bearings
- Maintain installed bearings
- Troubleshoot common bearing problem

CHAPTER 2 UNDERSTANDING BEARING TYPES & CORRECT APPLICATION

- Explanation of different bearing types and the advantages of using these in the right applications
- Cage definition, types, designs and materials
- Internal geometry (clearances), shields, sealing types

CHAPTER 3 LUBRICATION

- Functions of lubrication
- Base oil viscosity
- Lubrication regimes
- Contamination
- Composition of lubricant
- Compatibility of greases



CHAPTER 4 IDENTIFYING BEARING FAILURES AND THE ROOT CAUSES

- Fatigue
- Poor Lubrication
- Contamination
- Incorrect Installation
- Wear Characteristics
- Corrosion
- Electrical Corrosion
- Fracture
- Detection Technologies

CHAPTER 5 BEST PRACTICE INSTALLATION AND REMOVAL

- Taper Shaft Installation
- Taper Sleeve Installation
- Induction Heater on Parallel shaft
- Drive Up Method
- Drive Up tightening angle

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