

TRAINING - GETTING IT RIGHT

In today's highly competitive environment, businesses are becoming more aware of the need to invest in skills training. Equipment productivity and reliability depends on the skillful accomplishment of maintenance practices and *there is a clear relationship between maintenance practices, equipment productivity and bottom-line profit.*

- Bearings and Power Transmission products are critical components in production efficiency, and *fitting and maintenance practices are critical* in ensuring their design life is achieved.
- Evidence suggests that *95% of equipment failure is caused by improper installation of replacement parts and maintenance practices.* CBC staff are factory trained by the product manufacturers in correct installation procedures.
- *CBC offers a range of options* for customers to access our training expertise in the correct fitting and maintenance of bearings and power transmission components.
- *An accredited training course* and a wide variety of non accredited training courses have been designed to meet the demand for skills training in maintenance practices.
- CBC can tailor *a complete training package to specifically meet customer's individual needs* and time frames for presentation on or off site.
- All CBC training courses incorporate *world's best practice*, up-to-date techniques and information; include the use of hands-on training equipment; are conducted by qualified workplace trainers; and are offered Australia-wide for the convenience of our customers.
- All *specialised tools and equipment* used in CBC training are available for purchase to ensure that the new skills acquired by trainees can be used to optimum effect in the workplace.

OTHER TRAINING



CBC's other training courses include:-

- Bearing maintenance and replacement
- Dismounting and mounting rolling bearings
- Bearing failure mode and cause analysis
- Lubrication of rolling bearings - principles and application
- Shaft Seals - identification, handling and fitting
- Power Transmission - industrial maintenance, including
 - V-belt drives - identification, installation and alignment
 - Synchronous belt drives
 - Shaft couplings
 - Fluid couplings
 - Gear reducers
 - Electric motors
 - Inverters
 - Industrial brakes
 - Roller chain drives
- Condition monitoring
- Tapered bore spherical roller bearings - identification, handling and fitting
- Pump barrel bearing adjustment
- Conveyor pulley bearing and housing assembly
- Split roller bearings
- Shaft laser alignment
- Truck and mobile equipment wheel bearing fitting and maintenance
- Loctite retaining and sealing compound application
- Hydraulic bolt tensioning

Contact cbctraining@conbear.com to find out how we can customise training to suit your specific requirements.

www.conbear.com

TRAINING - GETTING IT RIGHT

Equipment productivity and reliability depends on the skillful accomplishment of fitting and maintenance practices.

CBC offers a range of options for customers to access our training expertise in the correct fitting and maintenance of bearings and power transmission components.

An accredited training course and a wide variety of module specific maintenance training courses have been designed to meet the demand for skills training in maintenance practices.



ACCREDITED TRAINING

MEM18005B PERFORM FAULT DIAGNOSIS, INSTALLATION AND REMOVAL OF BEARINGS

CBC is proud to present this nationally accredited training course, delivered under the auspices of the South Queensland Institute of TAFE and the Queensland Government Department of Education and Training from MEM053 Metal and Engineering Training Package.

The Unit of Competency, MEM18005B Perform fault diagnosis, installation and removal of bearings (a unit in the Certificate IV in Engineering), covers bearing terminology, bearing theory and application, sealing, bearing housings and basic bearing failure analysis.



WHO SHOULD ATTEND THIS COURSE?

This course is nationally accredited and is ideally suited to anyone undertaking the Cert IV in Engineering MEM053 since it fulfils the competency 18005B.

We also encourage all maintenance staff, apprentices, tradespeople and engineers who are responsible for the day to day maintenance of all types of rotating equipment to undertake this training.

WHAT DOES THE COURSE COVER?

Bearing Terminology

Understand and use the correct terminology for different types of bearings and their components to ensure correct identification and application.

Bearing Theory & Application

Learn how bearings work, how to ensure they operate reliably and why they fail. Includes information on shaft housing fits and tolerances. Understand which bearings are suitable in different conditions and learn best practice to ensure bearings achieve their design life.

Shaft Sealing

Learn about different sealing arrangements, their strengths, weaknesses and how to select the appropriate sealing system for a particular application. Learn correct installation procedures to prevent leaks.

Bearing Housings

Learn about different housing designs and when and where to use them for the best result.

Lubrication Fundamentals

Learn the principles of lubrication - how it works in a bearing, when and why it needs to be renewed and how simple techniques can vastly improve equipment reliability.

Basic Bearing Failure Analysis

Learn to correctly identify bearing damage and underlying failure modes. This hands-on component of the course will teach you to make appropriate repair and/or replacement recommendations to minimise further failures.

Hands-on Workshops

50% of the course is hands-on training in correct dismantling and installation procedures for all types of bearings. Workshop training incorporates world's best practice and up-to-date techniques and information from our suppliers.

LEARNING OUTCOMES

On completion of this course, participants should be able to:

1. Perform routine bearing checks during operation and non-operation
2. Diagnose bearing faults
3. Identify bearing requirements for replacement or installation
4. Remove bearings
5. Install plain bearings
6. Install anti-friction bearings

ACCREDITED TRAINING PROGRAM DELIVERY

CBC seeks to offer training specifically designed to meet the needs of our customers. Our aim is to deliver the requisite skills to their employees, creating a sustainable change in work practices.

The program can be delivered under a flexible arrangement, but is usually facilitated as

- A three day intensive program
- A three day program over 6 weeks – 1 day every 2 weeks

TO ORGANISE A COURSE

Contact your local CBC Sales Representative or Sales Service Engineer or email your expressions of interest to cbctraining@conbear.com

COURSE FEES

\$1,200 per person.

No cancellations or refunds (exceptional circumstances can be taken into consideration). However, if a participant is unable to attend the course, the enrolment can be transferred to another person.

If CBC Australia cancels the course a full refund will apply.

SUCCESSFUL COMPLETION OF THE COURSE

Each participant who successfully completes the course will receive the following:

- A Statement of Attainment in Competency MEM18005B Perform fault diagnosis, installation and removal of bearings from the South Queensland Institute of TAFE.
- A Certificate of Achievement for successful completion of the course from CBC Australia Pty Ltd.