

# MECHANICAL ELEMENTS MAINTENANCE COURSE

## OVERVIEW

The machines elements are classified into three main types:

Structural elements are split from complex structure into simple elements. Structural components such as frame members, shafts, couplings, bearings and seals.

Mechanisms generally consist of moving components such as gears and gear trains, belt and chain drives, cam and follower mechanisms.

A control system is a device or set of devices, that manages commands, directs or regulates the behaviour of other devices or systems. Control components such as buttons, switches, indicators, sensors, actuators and computer controllers.

## TARGET MARKET

This special course is designed for Equipment Engineers, Maintenance Supervisors and Maintenance Technicians and also for those wanted to understand elements of Mechanical. Also, for those who are in operations would like to acquire an understanding of how the quality of the maintenance activities affects their equipment functions if wrong type of elements used.

## COURSE OUTLINE

- Introduction to Motions
- Gears
- Couplings
- Belts
- Bearings
- Use of Measuring Tools (Micro Meter and Vernier calliper)
- Gauge Block
- Jigs and Fixtures
- Shafts and Cotter pins
- Introduction to Fasteners
- Screws and Washers
- Hand Tap and Die
- Shim plates
- Spring (Compression Springs, Tension Springs and Other Springs)



## OBJECTIVES

At the end of the course the participants will be able to:

- On completion of the course, participants will be able to
- Apply safe working practices and understand the principles of preventive and first-line maintenance
- Correctly diagnose a range of mechanical faults and plan a suitable course of action.
- Understand the principles of power transmission systems and recognise shafts, chains and couplings.
- Understand their typical applications and recognise common defects various types of bearings
- Understand their typical applications and recognise different types of bolts and nuts.
- Understand their typical applications and recognise different types gears
- Recognise various types of conveyor systems and their main components drive belts and chains.

**SBL CLAIMABLE**



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