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Course Name

Mechanical Maintenance Essentials Practical Skills and Techniques

Sector Name

Mechanical Engineering

Document Type

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Mechanical Maintenance Essentials Practical Skills and Techniques

Course Introduction

This training program is designed to provide delegates with the basic introductory level skills around mechanical maintenance techniques and basic engineering and fitting techniques, while at the same time learning the theory behind them. The program highlights topics such as basic fault-finding techniques, health and safety, and control of substances hazardous to health regulations, as well as an introduction to how maintenance organisations are organised and operated.

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Mechanical Maintenance Essentials Practical Skills and Techniques

Target Audience

- ✓ Maintenance Technicians & Mechanics – Performing repairs, troubleshooting, and preventive maintenance.
- ✓ Engineers (Mechanical, Industrial, etc.) – Overseeing and optimizing maintenance processes.
- ✓ Operators & Machine Attendants – Ensuring equipment reliability and efficiency.
- ✓ Supervisors & Maintenance Managers – Leading maintenance teams and strategies.
- ✓ Apprentices & Trainees – Developing foundational mechanical maintenance skills.

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Learning Objectives

- ✓ Safely undertake a range of mechanical tasks in an industrial environment
- ✓ Identify and apply the principles and practices of workshop safety
- ✓ Use and understand mechanical terminology
- ✓ Identify engineering fixing and locking devices
- ✓ Select and identify screw threads (size & type)

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Mechanical Maintenance Essentials Practical Skills and Techniques

Course Outline

✓ 01 DAY ONE

Working regulations

- ✓ Mechanical maintenance principles
- ✓ Drive systems
- ✓ Keys and keyways
- ✓ Bench work (produce a key)
- ✓ Bearing removal and fitting

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Course Outline

✓ 02 DAY TWO

Dismantling techniques

- ✓ Practical - dismantling pumps and motors
- ✓ Gears and clutches (theory and practical)
- ✓ Couplings (theory and practical)
- ✓ Fixings (theory and practical – split pins/lock wire)
- ✓ Fault location and diagnostics.
- ✓ Bearings: Recognise defects
- ✓ Remove a range of plain, ball, and roller bearings
- ✓ Select and correctly fit a range of bearings

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Course Outline

✓ 03 DAY THREE

Basic principles of Hydraulic Systems/ Mechanical devices: Removing the fitting and adjusting

- ✓ Belt and Chain drive mechanisms
- ✓ Shafts and couplings, including alignment
- ✓ Drive Keys
- ✓ Clutches and gear systems.

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Course Outline

✓ 04 DAY FOUR

Demonstration and practice checking, adjusting, maintaining, and rectifying the following:

- ✓ Gears and Gearboxes, Speed calculations
- ✓ Shafts and couplings, including the fitting and extraction of keys
- ✓ Clutches: Mechanical and Pneumatic
- ✓ Belt, chain, and sprocket drives
- ✓ Plain, ball, and roller bearings: removal and replacement
- ✓ Brakes, Linkages, Cams
- ✓ Variable speed drives
- ✓ Conveyors, including guarding requirements
- ✓ Pumps

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Course Outline

✓ 05 DAY FIVE

Demonstration and practice of the methods for performing routine adjustments by:

- ✓ Alignment techniques and shimming
- ✓ Lubrication
- ✓ Tensioning
- ✓ Practical application.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 28, 2026	Oct. 2, 2026	5 days	4950.00 \$	England , London
Jan. 24, 2027	Jan. 28, 2027	5 days	4250.00 \$	Qatar , Doha
May 24, 2027	May 28, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 \$	UAE , Dubai

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