

MECHANICAL JOINT INTEGRITY (MJI10)

COURSE OUTLINE (MJI10)

Aim

The aim of this course is to focus delegates on Joint Integrity and the adoption of best practice, in ensuring a leak-free 'right first time' joint.

Prerequisites

Candidates best suited to assembling and tightening bolted connections are mechanically minded, such as mechanical fitters and pipe fitters. These tend to have a basic working knowledge of the principles and practices of piping/flanged systems which provide a foundation of the course.

Course Duration

The duration of this course will be 1 day.

Optimum Number

Optimum number for these courses would be 6 delegates.

Training Aids

Use will be made of lecture notes, audio/visual presentation, examples of tools, flanges, gaskets, bolts and interactive practical demonstrations.

Assessment

Candidates will be assessed using practical exercises and a written questionnaire.

Certification

On successful completion of the course candidates will receive an ECITB Certificate.



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Course Objectives

On successful completion of this Manual Torque Wrench module delegates will:-

- » Be aware of the relevant health & safety legislation.
- » Understand the correct methods of pipe joint assembly, gaskets, bolts and flanges.
- » Be able to identify and select the correct flanges, joints and bolts for the task in hand.
- » Know the correct sequence and procedure of bolting up joints.
- » Use and set the tools correctly for the task in hand.

Course Syllabus (all units)

- » Health & Safety in Bolted Assemblies/ Disassembly
- » Principles of Bolting
- » Principles of Flanges
- » Principles of Mechanical Seals
- » Principles of Torque Tightening
- » Alternatives to Torque
- » Flange Joint Assembly Techniques
- » Bolted Joint Assembly Using Manual Torque Equipment