

MECHANICAL JOINT INTEGRITY (MJI19)

COURSE OUTLINE (MJI19)

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 practice 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 4 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 Hydraulic Torque Wrench module, delegates will, in addition to all of the above:-

- » Understand the safe and correct use of hydraulic torque wrenches.
- » Be able to assemble a pipe joint using hydraulic torque wrenches.

Course Syllabus (all units)

- » Health & Safety in Bolted Assemblies/Disassembly
- » Principles of Bolting
- » Principles of Flanges
- » Principles of Mechanical Seals
- » Principles of Industrial Fasteners
- » Principles of Compact Flanges
- » Principles of Hub and Clamp Pipe Connections
- » Principles of Torque Tightening
- » Alternatives to Torque
- » Flange Joint Assembly Techniques
- » Bolted Joint Assembly Using Hydraulic Torque Wrenches