

MECHANICAL JOINT INTEGRITY (MJI18)

COURSE OUTLINE (MJI18)

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 Bolt Tensioning module, delegates will, in addition to all of the above:-

- » Be able to safely and correctly use hydraulic bolt tensioning equipment
- » Be able to assemble a pipe joint using hydraulic tensioning equipment.

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
- » Bolted Joint Assembly Using Hydraulic Torque Wrenches

Support

This course has minimum requirements for literacy and numeracy and pre-course assessments may be undertaken to ensure that candidates meet the prerequisites. Support is available for candidates who may require help before undertaking the course. The support ranges from help for dyslexic learners, basic skills problems or updating mathematical skills, which may form part of the course. All enquiries will be dealt with sensitively and in confidence.