



# TRAINING

## ECITB MECHANICAL JOINT INTEGRITY TRAINING COURSES

Hi-Force is approved by the ECITB (Engineering Construction Industry Training Board) for the delivery of Mechanical Joint Integrity (MJJI) training courses in line with industry standards and practices.

Hi-Force's ECITB approved Trainers have the technical and practical knowledge, and understanding to deliver these training courses. These in-house trainers have many years of "hands on" experience in the Oil, Gas and Petrochemical industries (onshore & offshore), as well as Power Generation and a wide variety of construction industry applications, requiring bolted joint technology. They are also fully trained and competent in the use of the various mechanical and high pressure, hydraulic tools used to deliver the training courses, in terms of theoretical, practical and the required Technical Testing (TMJI) as specified and required by the ECITB, prior to the issue of a certificate of successful completion to the delegate.





## The Four Stage Process to ECITB Accreditation

The Training (stage 1) and Technical Tests (stage 3) are provided as two separate elements of the overall course. The Technical Tests (stage 3) can be taken by the delegate, usually within 3 - 12 months of completing the Training (stage 1) and only after the respective delegate has completed a series of workplace specific practical exercises, related to the new skills and knowledge obtained from the initial Training Course (stage 1). All ECITB training courses are fully documented and further details of the course content can be made available on request. All delegates will also be registered with the ECITB, once they attend the training and receive their ECITB accreditation certificate on successful completion of stages 1, 2 and 3.

All delegates that are awarded ECITB accreditation must be reassessed every three years (stage 4) to maintain validity of their certification. This course requires one and a half days duration to complete.

## The Future

Hi-Force continually monitors ASME and European directives and any changes that are introduced and implemented will under guidance of the ECITB, be incorporated into our training modules and applied as required.

## Industry Compliance

Hi-Force ECITB training modules comply with the following training standards and guidelines:

- ▶ ECITB MJJ & TMJJ Training & Testing Units (UK & International)
- ▶ Step Change in Safety Mechanical Joint Integrity Route to Competence Guidance
- ▶ BS EN 1591-4-2013: Flanges and their joints – Part 4 Qualification of personnel competency in the assembly of bolted connections of critical service pressurised systems
- ▶ ASME PCC -1-2013: Guidelines for pressure boundary bolted flange joint assembly
- ▶ Energy Institute Guidelines for the management of the integrity of bolted flange joints for pressurised systems
- ▶ BS EN 1591-1-2013: Flanges and their joints – Design rules for gasketed circular flange connections – Part 1 Calculations
- ▶ BS EN 1591-2-2008: Flanges and their joints – Design rules for gasketed circular flange connections – Part 2 Gasket parameters
- ▶ BS EN ISO 27509: 2012 Petroleum & Natural Gas Industries – Compact flange connections with IX seal ring
- ▶ BS EN 1515-2:2001: Flanges and their joints. Bolting. Classification of bolt materials for steel flanges, PN designated