ECITB in collaboration with Step Change in Safety introduced the MJI model in 2012 of training and validating skills in the specialist critical bolting area. The 5 MJI approved training courses are derived from the ECITB Mechanical Joint Integrity training standards with 5 Work Based Task Assignments and 5 MJI ECITB Technical Tests.

These training standards cover isolations, dismantling techniques, inspection of components, alignment techniques and clamp connectors as well as assembly and tightening techniques in specialist critical bolting.

### THE 4 STAGE ECITB/STEP CHANGE IN SAFETY MJI MODEL

#### STAGE 1
**ONSHORE TRAINING CENTRE**

- **Personnel undertaking operations on bolted connections**
- Using hand and/or hydraulic torque and tensioning techniques

#### STAGE 2
**WORKPLACE**

- **Workplace Practice**
  - Hand Torque Flange
  - Hand Torque Clamp
  - Hydraulic Torque Flange
  - Hydraulic Torque Clamp
  - Hydraulic Torque Tension Flange

#### STAGE 3
**TEST CENTRE**

- **Technical Competence**
  - TMJI10 Hand Torque Flange
  - TMJI11 Hand Torque Clamp
  - TMJI19 Hydraulic Torque Flange
  - TMJI20 Hydraulic Torque Clamp
  - TMJI18 Hydraulic Tension Flange

#### STAGE 4
**TEST CENTRE**

- **Reassessment every 3 years**

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**FURTHER INFORMATION**

The list of ECITB approved training providers and ECITB approved test centres can be found on the ECITB website or contact your local ECITB Account Manager for funding information.

Contact details are available on the ECITB website, please visit: [www.ecitb.org.uk](http://www.ecitb.org.uk)