

Introduction

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Partnered with Hydratight, this course combines three modular mechanical joint integrity training courses derived from ECITB technical training standards covering isolation, dismantling techniques, component inspection, alignment, assembly of flanges and clamps. The techniques involve hand torque, hydraulically torque and hydraulically tension bolted connection of flange and clamped connections delivered by an ECITB Approved Training Provider and Tutor.

Program Designed For

Technicians, maintenance and engineering personnel involved in the installation, maintenance, inspection and troubleshooting for mechanical joint integrity systems.

Venue

Singapore

Certification for Each Module (Optional)

- ECITB Training and Technical Test Certification.
- Training Certificates – 12 months validity for technical test application purposes.
- Technical Test Certificates – 3 years validity. Technical test can only be allowed **12 weeks** after completed ECITB Training.

Minimum Pax

6 Pax

Duration

3 Days



Course Content

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Module 1: Hand Torque Bolted Connection Techniques

- Dismantle, inspect, prepare, assemble, and tighten flanged and clamp connector pipe joints using hand torque equipment.
- Health and Safety.
- Instruction and practice in observing health and safety requirements and approved working practices.
- Prepare work areas for the preparation and tightening of flanged and clamp connector pipe joints.
- Prepare equipment for the preparation and tightening of flanged and clamp connector pipe joints.
- Prepare materials for the preparation and tightening of flanged and clamp connector pipe joints.
- Dismantle, inspect, prepare, assemble and tighten flanged and clamp connector pipe joints.
- Reinststate the work area after the preparation and tightening of flanged and clamp connector pipe joints.

Module 1: Technical Assessment

- Dismantle, Assemble, and Hydraulically Torque Flanged Joints

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Module 2: Hydraulically Tension Bolted Connection Techniques

- Dismantle, inspect, prepare, assemble, and tighten flanged and clamp connector pipe joints using hydraulic tensioning equipment.
- Health and Safety.
- Instruction and practice in observing health and safety requirements and approved working practices.
- Prepare work areas for the assembly and tightening of bolted connections using hydraulic tensioning equipment.
- Prepare equipment for the assembly and tightening of bolted connections using hydraulic tensioning equipment.
- Prepare materials for the assembly and tightening of bolted connections using hydraulic tensioning equipment.
- Assemble bolted connections.
- Tighten bolts using hydraulic tensioning equipment.
- Check integrity of assembled bolted connection.
- Reinststate the work area after the assembly and tightening of bolted connections using hydraulic tensioning.

Module 2: Technical Assessment

- Dismantle, Assemble, and Tensioning Bolted Connections

Course Content

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Module 3: Hydraulically Torque Bolted Connection Techniques

- Dismantle, inspect, prepare, assemble, and tighten flanged and clamp connector pipe joints using hydraulic torque equipment.
- Health and Safety.
- Instruction and practice in observing health and safety requirements and approved working practices.
- Prepare work areas for the assembly and tightening of bolted connections using hydraulic torque equipment.
- Prepare equipment for the assembly and tightening of bolted connections using hydraulic torque equipment.
- Prepare materials for the assembly and tightening of bolted connections using hydraulic torque equipment.
- Assemble bolted connections.
- Tighten bolts using hydraulic torque equipment.
- Check integrity of assembled bolted connection.
- Reinstate the work area after the assembly and tightening of bolted connections using hydraulic torque equipment.

Module 3: Technical Assessment

- Dismantle, Assemble, and Hydraulically Torque Clamp Connector Joints