TECHNICAL
EDUCATION
ACADEMY

School of Engineering

COURSE PROGRAMME

000323

Bolt Tightening

It was the increasing technological demands of the Oil & Gas Industry that exposed the limitation of conventional bolt tightening methods as failing to achieve consistently tightened, leak free joints.



Learn from the Best in the Business!

Course overview

Duration: 2 days / 16 hours · Foundation level

Why take this course

It was the increasing technological demands of the Oil & Gas Industry that exposed the limitation of conventional bolt tightening methods as failing to achieve consistently tightened, leak free joints.

Flange joint failure regularly occurs within the Oil and Gas industry, causing millions of pounds worth of damage, therefore preventing leakages and joint failure is a main priority. In addition to carrying out regular testing procedures, consistent observations and regular maintenance is imperative to preventing failures.

Who it is for and how it helps

Mechanical technicians and engineers

What you will learn

- Describe and explain the reason for Flange management.
- Describe the behaviour of bolts.
- Describe bolt failure modes.
- Identify common bolt and nut materials identification markings.
- Conduct Flange Maintenance.
- Describe hazards and safety requirements associated with flanges.
- Describe the material and function of flanges.
- Identify the different types of Flanges.
- Identify the different types of flange faces.
- Identify the rating of a flange.
- Describe hazards and safety requirements associated with flange gaskets.
- Identify the different types of gaskets.
- Describe the procedure for installing gaskets.
- Describe the procedure for the correct torqueing of flange bolts.
- Describe the correct procedure for rectifying flange leaks.
- Describe the hazards and safety requirements associated with HYTORC machine and Power Packs.
- Describe the operational requirements of the HYTORC Torqueing Machine and Power Packs.
- Ensure the safety and integrity of personal and equipment while working on flanges.
- Ensure all flange assemblies on sites are completed to the same standard.
- Quality control measures such as qualification, calibration, auditing, and evidence.

Participation and contacts

Joining the programme

Contact the Academy and quote course code 000323 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

Learn from the Best in the Business!