TECHNICAL
EDUCATION
ACADEMY

School of Engineering

COURSE PROGRAMME

000124

Flange Management

Flange Management training programme provides the trainee with the necessary underpinning knowledge and practical skills to make and break flanged joints with manual bolt-up methods.



Learn from the Best in the Business!

Course overview

Intermediate level

Why take this course

Flange Management training programme provides the trainee with the necessary underpinning knowledge and practical skills to make and break flanged joints with manual bolt-up methods. At the end of this course all participants will be competent in ensuring the integrity of flanges on pipework and vessels in process plants.

This programme offers participants with the fundamental knowledge and skills on piping system, bolt tightening (torquing & tensioning) and techniques of tightening sequences.

Who it is for and how it helps

Mechanical technicians.

What you will learn

- Planning and preparing for the work
- Break flange in accordance with flange management procedure
- Inspect Flange and components
- Make flange joint in accordance with flange management procedure
- Finish the job

Curriculum

Modules 01–04

01 Plan and prepare for job

- Identify work requirements
- Inspect job site
- Confirm isolations have been completed to standard
- Confirm hazard controls
- Coordinate with appropriate personnel
- Select appropriate tools
- Check calibration and certification of tools as required
- Complete checklists and records as required

02 Break flange in accordance with flange management procedure

- Prepare tools, drip trays, and so on with appropriate care
- Connect any required drain lines
- Undo nuts in accordance with procedures
- Split flange and drain pipe as required
- Identify any skills escalation required
- Manage open pipe
- Complete checklists and records as required

03 Inspect flange and components

- Assess cold pull and refer if required
- Assess degree of misalignment and refer if required
- Clean and inspect flange surface both front and back
- Check studs and nuts
- Confirm compliance of components and refer as required
- Identify any problems and take appropriate action

04 Make flange joint in accordance with flange management procedure

- Select appropriate gasket
- Check all components are to specification
- Apply lubricant as required

Curriculum

Modules 04–05 · Module 04 — continued

- Complete initial assembly of joint
- Insert blind as required
- Attach drain if required
- Re-check the gasket
- Re-check alignment
- Tighten using appropriate hand tools to procedure
- Use torque calibration charts as required
- Complete checklists and records as required

05 Finish the job

- Make a final check of joint alignment
- Organise required checks
- Confirm joint integrity as required
- Complete checklists and records as required

Joining the programme

Contact the Academy and quote course code 000124 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

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