TECHNICAL EDUCATION ACADEMY

School of Engineering

COURSE PROGRAMME

000652

MECH065 - Pig Launching and Removal for Pipeline Inspection



Learn from the Best in the Business!

Course overview

Intermediate level

Why take this course

The purpose of this training course is to present the requirements for the relevant industry practices regarding inspection and condition monitoring of pipeline systems using pigging devices, with the final goal of optimization of maintenance and efficiency of pipeline operation. The course will provide guidelines for carrying out inspection and pipeline defects and detection of potential failures due to material degradation and other operational causes.

This training course includes several workshops with real problems from industrial practice which will enable discussions and exchange of experiences.

The training course will feature:

- Methods for inspection and effective maintenance of pipeline systems.
- Planning and practical issues regarding pigging devices
- Development of maintenance and repair program based on inspection
- Analysis of cases studies during several workshops

Who it is for and how it helps

This course is designed to benefit all levels of Technical Personnel in industry who deal with Piping System operation and maintenance:

- Plant professionals dealing with operation pipeline systems
- Engineers and technical staff in charge of inspection and condition monitoring
- Technical professionals involved in technical support and maintenance and repair
- Engineers in charge of planning of new pipelines and retrofitting old ones

What you will learn

- Understand the requirements of industry standards for pipeline inspection
- Develop efficient maintenance programmes
- Implement technologies recommended for repairs and alterations

Curriculum

Modules 01–04

01 Types of Pipeline Designs and Configurations

- Overview of types of pipelines in oil and gas industry
- Importance of pigging of pipelines
- Various types of pig designs based on application
- Design and operation of pig traps
- Operation of pig launching and receiving

02 Types of Pigging Devices Review of pig cleaning devices

- Pigging challenges: pipe bends, tees and valves
- Pipelines with multiple diameters
- Piggability of special fittings
- Assessing of pig’s performance

03 Factors Considered in Planning of Pigging Operation

- Pipeline operation conditions: Flow rate, pressure drop, pumping power
- Fluid cleanliness: wax, debris, dirt, etc.
- Frequency of pig runs
- HSE during pigging: site safety procedures and performance control
- Environmental issues with waste handling

04 Problems of Pig Regular Operation

- Problems with pigs in operation: stuck pig and adequate remedy
- Signaling and pig tracking instrumentation: on-shore and off-shore
- Locating and reporting of abnormal operating conditions (AOC)
- Pig inspection, maintenance and spares

Participation and contacts

Joining the programme

Contact the Academy and quote course code 000652 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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