

Training Courses November

Principles of Corrosion Engineering

2024

Dates: 05 -07 November 2024.

Time: 09:00 a.m. - 01:00 p.m.

Fees: 250 K.D.

Objectives:

At the end of the course, participants will be able to do the following:

- Cover some corrosion fundamentals, such as definitions, different environments, CO₂ and H₂S corrosion deterioration.
- Understand the corrosion rate expressions, electrochemical reactions, polarization, passivity and influence of flow rate.
- know forms of corrosion, such as general, galvanic, pitting, erosion, stress, amongst others.
- Understand the gravimetric and some electrochemical measurement techniques, such as potentiodynamic polarization, linear polarization resistance (LPR), and electrochemical impedance spectroscopy (EIS).
- Understanding the multiphase flow in petroleum pipelines.
- Analyzing some corrosion failures in oil and gas industry.
- introduce participants to different protection methods for oil and gas industry.
- Practically examine the microstructure (optical microscope) and calculate the corrosion rate (electrochemical methods).

Prerequisites: An understanding of basic chemistry and physics.

Instructors: Dr. Rihan Rihan, and Eng. Bader Al-Wakaa, Eng. Abeer Al-Farhan.

Participants: Individuals with a diploma or bachelor degree in engineering or chemistry who wish to broaden their knowledge in the field of corrosion engineering.

