

CORROSION CONTROL AND MATERIALS SELECTION IN UPSTREAM OIL AND GAS PRODUCTION

COURSE DESCRIPTION

This is a three-day intense training course/workshop which will introduce engineers comprehensive knowledge of oilfield corrosion, types of materials used in hydrocarbon industry and allow them sufficient knowledge to assess potential corrosion roots/sources and carry out basic design and materials selection for a specific project. Participants will also learn the best-practice corrosion control measures in upstream operations and accurate selection for their specific environment .

KEY DELIVERABLE:

At this three day training course you will learn about

- ❑ Types of materials used in upstream OnG industry
- ❑ Industry standards/code for corrosion and materials
- ❑ Identification of damage mechanisms
- ❑ Corrosion rate calculation and overview of various CO₂ corrosion models
- ❑ Corrosion risk assessment
- ❑ Review of NACE MR01-75/ISO-15156 and its recent amendment
- ❑ Materials selection and optimization
- ❑ Corrosion mitigation and prevention methods including coating, CP, CI, design modification
- ❑ Corrosion monitoring and inspection methods



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WHO SHOULD ATTEND

This program is intended for

- ❑ Corrosion and material engineers
- ❑ Mechanical and Process engineers

PREREQUISITE

Having a basic knowledge of materials science is useful though is not mandatory



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INSTRUCTOR

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Saipem Limited

London, UK

Dr. Hosseini has over 13 years experience of corrosion, materials, and metallurgy and in the oil and gas industry. He is now working with [Saipem Ltd](#) as principal materials and corrosion engineer and hold the position of Materials Team Lead.

His areas of expertise and technology interest spans over corrosion engineering & management, and materials engineering in oil and gas industries. He combines these roles with academic activities and has published more than 30 articles in scientific journals and conferences. Over the past decade, he has been working with various main oil and gas EPC contractors and operators, a number which are listed below.

- ❖ Saipem Ltd.- UK
- ❖ Lloyd's Register EMEA- UK
- ❖ Germanischer Lloyd- Malaysia
- ❖ Iranian Offshore Engineering and Construction Co.- Iran
- ❖ Energy Industries Engineering and Design Co.- Iran
- ❖ Iran Marine Industrial Co.- Iran

Dr Hosseini holds professional membership of a number of institutions such as ICorr, NACE, SUT, BINDT, IoM3 and TWI.

