

Environmental Impact and Risk Assessment

Training Course

Environmental Impact and Risk Assessment

Course Language

English

Course Duration

Total Number of hours **15**

Course Objectives

The course will involve hands-on experience preparing risk and environmental impact assessment reports.

Course Key Topic Area Includes:

Course Content

- The purpose and role of EIA in decision making.
- International laws and treaties of EIA.
- The EIA process (public involvement, screening, scoping, impact analysis).
- Mitigation options and EIA reporting
- Identification of Hazards and associated risks.
- Understanding the need for risk assessment.
- Risk assessment steps and risk assessment matrix.
- Risk assessment in practice (Hands-on approach).

Learning Outcomes

At the end of the program the trainees will be able to:

- Recognize and understand the need for risk and environmental impact assessment
- Identify hazards and associated risks
- Carry out a risk assessment and prepare a risk assessment report
- Appreciate the importance of EIA in the decision-making process.
- Prepare an Environmental Management Plan and EIA report.

Target Audience

The course suits managers and decision-makers, practicing engineers, chemists, technologists, and lab specialists working in the environmental sector or the oil and gas industry.

Course Material /Technology used/ Details Relevant to the course.

This course introduces the participants to two important topics for practicing engineers and operators in their area of work or managers and decision-makers in their offices: Risk Assessment (RA) and Environmental Impact Assessment (EIA). RA is a systematic process for estimating the quantitative or qualitative risks related to potential hazards or a recognized threat. Risk assessment centers around the individual's ability to identify hazards and the risks associated with those hazards and outline an effective plan for eliminating those risks or reducing the potential of their harmful effects. EIA is an important topic in the Oil and Gas industry, as it offers a systematic approach to assess the potential environmental impact of any proposed project.

Instructor Details & Brief Instructor Bio

Name: Prof. Muftah El-Naas
Title/Dept: Gas Processing Center, College of Engineering
Mobile: 70561244
Email: muftah@qu.edu.qa

Prof. Muftah El-Naas is the Director of the Central Laboratories Unit and a Research Professor at the Gas Processing Center (GPC) at Qatar University. He has also served as the QAFCO Chair in Chemical Process Engineering and as Director of the GPC. He obtained his B.A.Sc. in Chemical Engineering from the University of British Columbia, Canada, and earned both his M.Eng. and PhD in Chemical Engineering from McGill University, Canada.

Prof. El-Naas has published more than 280 papers in international journals and conference proceedings, in addition to authoring two books, contributing several book chapters, and securing multiple patents and patent applications. Throughout his career, he has received numerous awards and recognitions, including the Qatar University Excellence in Research Award in Science and Engineering for 2023.