



External Training Course

Integrated Field Development Planning

From 22 Jul. To 26 Jul. 2024
From 16 Sep. To 20 Sep. 2024
From 04 Nov. To 08 Nov. 2024

**Radisson Blu Hotel, Amsterdam City
Center, Netherlands**

Mr. Ghanem F. Al-Otaibi
GM & Institute Owner

☛ **Tel.: 00965 22248901**
☛ **Mob.: 00965 65548855**
☛ **Email: admin@agi-kw.com**

☛ **Fax: 00965 22204999**
☛ **Mob.: 00965 97273712**
☛ **Email: agi-kw@hotmail.com**

W/SITE: WWW.AGI-KW.COM

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INTRODUCTION

Participants on this Integrated Field Development Planning training course will gain a good understanding of how multi-disciplinary, integrated teams within oil and gas companies collaborate to identify the best way to develop an oil or gas field. This Oil & Gas training course highlights the roles of the wide range of scientific, technical, commercial and business disciplines that contribute to making complex decisions, involving very large investments, while dealing with large amounts of uncertainty. This training course is designed to equip early- and mid-career professionals (geoscience, engineering and commercial) for working within integrated, multi-disciplinary teams on international development projects, and for future oil business leadership roles.

OBJECTIVES

By the end of this Integrated Field Development Planning training course, participants will:

- Have an understanding of the work of the integrated field development planning team on international oil and gas projects.
- Have practical skills and work tools that will be of direct use to them in their future project work.
- Understand the background to the industry, and the underlying science of oil and gas formation.
- Recognise the importance of effective early planning decisions (concept selection and 'front-end loading') in delivering successful projects.

TRAINING METHODOLOGY

The participants will receive thorough training on the subjects covered by the course outline utilizing a variety of adult learning techniques tailor-made for the application in the traffic engineering discipline. The focus on actual case studies from Europe, Asia, US, and developing countries and solving of actual problems through the guided examples. The Instructor will use a theoretical basis, extended onto the practical examples of issues addressed in different projects, with the videos and tabletop exercises.

COURSE OUTLINES

DAY 1: Field Development Planning – The Industry and the Team

- **The industry context to field development planning.** The upstream oil and gas industry from various key ‘perspectives’, such as the oil and gas asset lifecycle, the value chain, the industry players, and the place in society.
- **The role of the integrated professional team in development planning.** Overview of the fundamental geoscience and engineering disciplines, which form the basis upon which decisions are made, including geophysics, petrophysics, reservoir engineering, well engineering and facilities engineering.
- **Overview of field development planning workflow.** Overview of the science, culture, practice and challenges of field development planning in the upstream oil and gas sector, including dealing with incomplete information and uncertainty

DAY 2: Field Development Planning and Economics

- **Field Development Planning.** How the integrated, team, drawn from all disciplines (commercial, scientific and engineering) collaborate to identify the best way to develop a reservoir.
- **Petroleum Economics.** The role of economics in the planning of oil and gas developments, in order to maximise value, including the use of cash flow analysis, time value of money and investment indicators.
- **Field Development Planning Workshop.** Participants work individually, or in teams, on realistic field development planning, economics and decision making exercises.

DAY 3: Decision Making in Field Development Planning

- **Decision Analysis.** How the integrated field development team make complex decisions, involving many different types of input parameters, in order to ensure that very large investments are made rationally and efficiently, using tools such as expected value, sensitivity analysis, decision trees and Monte Carlo simulation.
- **Field Development Planning Workshop.** Participants work individually, or in teams, on realistic field development planning, economics and decision making exercises.

DAY 4: Production Contracts and Petroleum Resources Management

- **Production Contracts & Licences.** The legal, fiscal and contractual conditions under which an oil company acquires the right to produce oil or gas, and the way that the revenue and wealth is shared with the host country.
- **Petroleum Resources Management.** How quantities of oil and gas in the reservoir (reserves and resources) are calculated, classified and reported in a consistent manner for management, regulatory and investment and purposes.
- **Field Development Planning Workshop.** Participants work individually, or in teams, on realistic field development planning, economics and decision making exercises.

DAY 5: Safety and Environment within Field Development Planning

- **Corporate Responsibility.** How oil and gas projects are executed in a safe and sustainable manner, with due respect for the environment, and it a way that benefits the local communities in which activities take place, covering topics such as: safety, environmental impact and social licence to operate.
- **Field Development Planning Workshop.** Participants work individually, or in teams, on realistic field development planning, economics and decision making exercises.