



HS086-3D: SIMOPS: Simultaneous Operations System in Oil & Gas Industry

Training Description:

The accelerated growth of world population creates an increase of energy needs. This requires new paths for oil supply to its users which can be potentially hazardous sources for individuals and the environment. SIMOPS addresses the Risk Analysis for the Prevention of Hazardous Situations in the Petroleum and Gas Industry controlling the potential hazards of petroleum engineering activities, emphasizing risk assessments in drilling, completion, production, and the gathering, transportation and storage of hydrocarbons. SIMOPS procedures are designed to aid decision-making processes for individuals and environmental protection.

This course is useful to provide guidance to engineers, technicians and other professionals in the Petroleum and Gas Industry interested in Risk Analysis for Preventing Hazardous Situations.

In a world where markets are expanding and demands for effective production processes are rising, the regulation of simultaneous activities is increasingly a subject of matter for assuring safety in the petroleum industry. The industry is now in a phase of restructuring. Installation age and equipment wear are increasing and call for excessive maintenance in the years to come. At the same time the industry is struggling to find new ways of exploiting the remaining resources. Hence, modifications on the existing offshore installations are needed. Oil companies are also more closely interacting with the rest of the world than ever before, and this connection means both increased competition and a need for cooperation amongst different companies through outsourcing of services not regarded a part of the companies' core business. The numbers of companies operating on licenses are simultaneously increasing, and personnel from different cultures and nationalities are bound to work together at the same installations.

It has been found that there is often evidence of failure in communication between the contractors and their subcontractors. These observations are connected to unclear relations of responsibility, deficient management of simultaneous activities and lack of coordination between the different management systems. A question from the RNNP (Risk Level Norwegian Petroleum Industry) report from 2003 clearly illustrates this: 73% of contractor employees agree that differing installation procedures are a safety threat). Conflicts of interest and use of power can easily become a part of this new situation on the shelf. In the government, Research & Development Strategy for HSE in the petroleum industry (FoU, 2007), the following comment was made:

"There is a need for more knowledge about how power relations affect the health, safety and environment in the petroleum industry" (FoU, 2007).

The Deepwater Horizon accident serves as a recent example on how several companies and their interdependencies may increase the level of risk, and how good communication between the included companies is crucial for making the right safety related decisions.

Due to the above-mentioned factors, complexity at all levels is inevitable. The safety in simultaneous activities will thus depend on the responsible stakeholders' ability and willingness to handle this complexity, and the regulations given by the government might be seen as crucial for how this work is performed.

Training Objectives:

By the end of the training, participants will be able to learn and get familiarized with:

- ✓ Accidental Risk



- ✓ Environmental Impact
- ✓ Equipment Failure
- ✓ Risk Analysis Assessment
- ✓ Storage Systems
- ✓ Waste Disposal
- ✓ Well Abandonment

Training Designed for:

This course is intended for Engineers, Managers and Individuals involved in planning, managing and/or handling emergencies, safety, risk and reliability in offshore sites or facilities.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
 - Purpose
 - Problem and hypotheses
 - Limitations
 - Structure of the course
- ❖ Context
 - Conceptual clarifications
 - Regulatory development
 - Complexity in the offshore petroleum industry
 - Components of regulatory control
 - The Deep-Water Horizon Oil Spill (CASE STUDY)

DAY TWO:

- ❖ Theoretical Perspectives
 - Introduction to theoretical perspectives
 - Risk regulation
 - Risk perception
 - Power
- ❖ Method

DAY THREE:

- ❖ Empirical Findings
 - The phenomenon of simultaneous activities
 - Hazards of simultaneous activities
 - Regulation of simultaneous activities
- ❖ Discussions / Practical Exercises
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request”.

Please note that the above topics can be amended as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant’s manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department