

HAZOP Study & Risk Analysis for HSE Specialists

Course Contents

The course is designed for engineers who have already participated in HAZOP studies and wish to increase their proficiency. It is also suitable for those new to HAZOP who are quick to learn. The course material is configured for the type of facilities used in the oil & gas industry - automated continuous processes, and is led by a tutor with considerable HAZOP experience in offshore and onshore facilities in the oil & gas industry. The course covers all the activities involved in HAZOP, and examines the contribution and limitations of HAZOP study in relation to other techniques used in hazard identification and risk management.

After consolidating basic HAZOP knowledge, the delegates will receive tuition and practical guidance in various HAZOP techniques and meeting leadership skills. These will be developed through hands-on experience during a realistic syndicate exercise under the supervision of an experienced tutor. In fact, approximately 50% of the course comprises tutored exercises.

The sessions will be covered over 8 days, 2-2.5 hrs. every day, and will cover following

Day	Topics	Method
Day - 1	Introduction to HAZOP process Definitions, HAZOP what and why, primary and secondary key words, applications, team selections and composition, dos and don'ts etc	HAZOP Facilitator Driven
Day - 2	Preparation for HAZOP bases on Case study Project Overview Brief Description of Process HAZOP Methodology and Schedule - an Overview Hazard Identification Establishing Hazard Rating and Risk Rating	Group work activity by the HAZOP facilitator
Day - 3	Review of preparation Node Selection	Group work activity by the HAZOP facilitator
Day - 4	Conducting HAZOP (Case Study)	Group work activity by the HAZOP facilitator
Day - 5	Continue conducting HAZOP	Group work activity by the HAZOP facilitator
Day - 6	Continue conducting HAZOP	Group work activity by the HAZOP facilitator
Day - 7	Reporting & Assessment - Learners are required to complete case study assignments and this would be reviewed by the HAZOP facilitator to check if it meets the criteria of certification	Group work activity by the HAZOP facilitator
Day - 8	Additional Information such as Legislation (OSHA 1910.119 MANAGEMENT OF PROCESS HAZARDS) Available software Other PHA methods and Close out	HAZOP Facilitator Driven Open House