

SAFETY and RISK MANAGEMENT IN OIL & GAS

COURSE OBJECTIVE

Pelatihan ini dimaksudkan untuk memberikan pengetahuan dan pemahaman mengenai *safety* dan manajemen risiko dalam operasi *oil & gas*. Untuk *safety* dalam *oil & gas* akan dibahas lapis-lapis perlindungan, *safety management system*, *safety instrumented system (SIS)*, dan sebagainya.

Sedangkan untuk *risk management* akan dibahas metode-metode penentuan nilai risiko seperti *Event Tree Analysis (ETA)*, *Fault Tree Analysis (FTA)*, *Risk-Based Inspection (RBI)*, dan sebagainya.

Di kursus ini peserta juga akan belajar mengetahui *safety* dan manajemen risiko dalam fasilitas minyak dan gas pada dokumen-dokumen *technical drawing* seperti pada *process flow diagram (PFD)*, dan *piping & instrument diagram (P&ID)*.

Dengan mengikuti pelatihan ini peserta akan memahami konsep dan praktek *safety* dan manajemen risiko di fasilitas minyak dan gas.

COURSE CONTENTS

Course Introduction

Safety & Risk Management Terminology - Safety terminology, hazard, risk, incident, accident, safety work

Overview of Oil & Gas Processing & Facilities - Wellhead, separator, pressure vessel, piping, pipeline, conditioning

Protection Concepts and Layer of Protection – Basic Process Control System (BPCS), alarm system, safety instrumented system

Safety & Risk Management in Design Process - Project phase, project safety analysis

Hazard and Operability Study / HAZOPS - Methodology, Team Coordination, HAZOPs guide word, HAZOPs Worksheets

Hazards Related to Oil and Gas Industry - Fire, explosions, slips, trips, falls, motor vehicle accidents, confined space

Safety Instrumented System (SIS) and Risk Reduction - Probability failure on demand, safety integrity level

Safety Management/Administration System - Safety policy, safety standard, procedure, PTW System

Methods for Risk Identification & Risk Assessment - What if, checklist, Event Tree Analysis / ETA, Fault Tree Analysis / FTA, Risk-Based Inspection

Reading Safety and Risk Management System at Documents of Technical Drawing - Process flow diagram (PFD), symbols & labels, piping & instrument diagram / P&ID

Case Study, Discussion, and Film

WHO SHOULD ATTEND

HSE professionals
Process, piping and rotating equipment professionals
Operations and maintenance professionals
Instrumentation and electrical professionals
Project engineers, site managers, and field superintendents
Production, oil and gas processing, and drilling supervisors and engineers.

ABOUT THE INSTRUCTOR

Ir. In Jumanda Kasdadi is an experienced instructor and he has been conducting training for oil and gas companies since 1997. He has BS and MS in chemical engineering degrees from the Institute Technology Bandung.

Companies that have received Mr. Kasdadi's inhouse training include Chevron, Pertamina Hulu Energi-ONWJ, ConocoPhillips, Total, Medco, Petrochina, Pertamina, Star Energy, and many others.

Ir. In Jumanda Kasdadi was involved in several Front-End Engineering Design (FEED) and Risk-Based Inspection projects.

For course registration and more information about the course, please visit lditraining.com or send your email to LDI Training at [HYPERLINK "mailto:lditrain@indo.net.id" lditrain@indo.net.id](mailto:lditrain@indo.net.id).

