

A Live Online Course

# SAFETY AND RISK MANAGEMENT IN OIL & GAS

by Ir. In Jumanda Kasdadi, MT

## INTRODUCTION

Pelatihan ini memberikan pengetahuan dan pemahaman mengenai *safety* dan manajemen risiko dalam operasi *oil & gas*.

Untuk topik *safety management*, Pak Jumanda Kasdadi akan membahas lapis-lapis perlindungan, *safety management system*, *safety instrumented system (SIS)*, dan sebagainya.

Sedangkan untuk *risk management*, peserta kursus akan belajar 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 CONTENT

- **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.

## **COURSE DELIVERY**

- This live online course is conducted via Zoom in Bahasa Indonesia.
- Training hours are from 9:00 to 15:00 WIB
- Each participant needs a PC and WIFI connection to attend this course.
- Participants will receive course material prior to training.
- Participants will receive a certificate after completing the training.

## **REGISTRATION INFORMATION**

### **Two ways to register:**

- Email your registration message to PT Loka Datamas Indah – [lditrain@indo.net.id](mailto:lditrain@indo.net.id) or
- Register online on [www.lditraining.com](http://www.lditraining.com)

For course registration and more information about the course, please contact PT Loka Datamas Indah by:

Phone: +62-21-6326911

Email: [lditrain@indo.net.id](mailto:lditrain@indo.net.id).