

GAS HAZARD and MEASUREMENT

by

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COURSE OVERVIEW

Providing students with a sound understanding of the techniques to assess the gas hazardous substances in the workplace, and also provides an understanding of how the measurement of the hazardous substances

COURSE CONTENTS

- **Introduction of Gas Hazard** (gas pressure hazard, flammable gas, toxic gas, etc)
- **H₂S Gas Hazard** (Physical Properties & Chemistry of H₂S, Toxicity of H₂S, flammability of H₂S, etc).
- **SO₂ Gas Hazard** (Physical Properties & Chemistry of SO₂, Toxicity of SO₂, flammability of SO₂, etc).
- **CO & CO₂ Gas Hazard** (Physical Properties & Chemistry of CO and CO₂, Toxicity of CO & CO₂, flammability of CO, etc).
- **CH₄ and other Hydrocarbon Gas Hazard** (Physical Properties & Chemistry of CH₄ and other Hydrocarbon Gas, flammability, etc).
- **Gas Leakage, Fire, and Explosion** (triangle & tetrahedron of fire; types & physical properties & chemistry of fire & explosion, etc)
- **The Boiling Liquid Expanding Vapor Explosion (BLEVE)**
- **The Unconfined Vapor Cloud Explosion (UVCE)**
- **Measurement of Gas Hazard** (Gas Detection, Gas Sensor, Personal Gas Monitor, etc)
- **Respiratory Protection and SCBA** (Self Containment Breathing Apparatus)
- **Fire Protection and Extinguishers**
- **Discussion, Case Study and Film**

WHO SHOULD ATTEND

Personnel whose job responsibilities include:

- Supervising, Advising, Monitoring or Auditing
- Monitoring and Auditing,
- Implementing,
- Designing, Constructing, Implementing, Modifying or Operating company process HS&E efforts in the office or in the field
- Other Operations Personnel;
- Other professionals with little to moderate background in risk analysis or HS&E, or who want a better understanding of the subject matter; and
- Government Employees.

COURSE LEADER

IN JUMANDA KASDADI

In Jumanda Kasdadi (IJK) has experienced an instructor at the industrial training since the year 1997, both the in-house training and public training.

Experience in-house training in international **copper mining companies in Papua** (Year 1997-1998) and incorporated in the ITC (Industrial Training Center) company in Field Instrumentation & Process Control. IJK joint team is also experienced in-house training in the chemical industry company operating in Karawang (Year 2007) in Field Operations & Processing Unit, and The Oil&Gas Companies operating in the region of Palembang, Balikpapan, and the Natuna (Year 2006) Sector Oil & Gas Processing, Equipment and Control. The experience of other in-house training them in oil & gas companies that operate the Thousand Islands became one of the instructors in Field Safety Aspect Gas Operation, in the year 2008.

In recent years also do in-house training in the major oil companies in Riau Rumbai, Duri, Jambi, and Balikpapan. As for the public training, IJK & team have experienced more than 225 execution of training in Jakarta, Bandung, Surabaya, Balikpapan, Jogjakarta, Denpasar, Lombok, and Batam. In addition to training, IJK is also experienced in some job-related training materials include **Field of Risk Assessment** in the oil & gas company for 9 gas plant in South Sumatra onshore & Natuna offshore, Field Processing on the design process and waste treatment equipment laboratory environment in Pare-Pare in South Sulawesi, Field piping and feasibility study on a pipeline from the offshore pipeline tie-in on the pipe in the Straits of Malacca to the onshore pipeline distribution on the Island of Batam.

The international experience of IJK is the conduct of FEED (Front End Engineering Design) of Oil Pipeline Distribution at **Dili, Timor Leste (2015)** and an instructor at the training Corrosion Control Management & Coating with participants of Titas Gas Company, **Bangladesh (2016)**.

IJK has also taken courses for 9 topics in The Oil & Gas fields at **PETEX (Petroleum Extension), University of Texas at Austin, in Houston, Texas, USA (2018)**.

COURSE DELIVERY

- This offline (face to face) course is conducted in Bahasa Indonesia
- Training hours are from 08:00 to 16:00 WIB
- Participants will receive course materials
- Participants will receive a certificate after completing the training

TRAINING CONFIRMATION

LDI Training will provide a Confirmation Letter after we receive registration according to the required quota.

For course registration and more information please email to

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