Risk Based Inspection (RBI)
September 2 - 5, 2014 at The Amaroossa Hotel, Bandung

Objective:
The course will highlight RBI level 1 and 2 analysis based on API 581. After attending this 4-day course, then participants will gain:
- Better understanding and knowledge of concept of the risk based inspection (RBI) that becomes an important tool to reduce risk in refinery and process industries, especially in oil & gas industry
- Knowledge of the concept of risk viewed from likelihood and consequence of failure
- Learning the failure mode and damage mechanism
- Followed by risk calculation to screen and to rank the stationary equipment.
- The risk presentation in the form of matrix, curves and tabulation will be explained.
- An extensive case study to perform risk assessment and corrosion mapping of the critical equipment and to set up an effective inspection plan.
- Computer-based code and analysis of the risk to help
- Accelerating the learning process

Outline:
Fundamental of Risk Based Inspection (RBI)
1. Scope and Application of RBI
2. Defining and Measuring Risk
3. Hazard Identification
4. Fundamental Risk Analysis
5. The Relation between Inspection and Risk

Equipment’s Failure Modes and Damage Mechanism
1. Brittle & Fatigue Failure
2. Creep Failure
3. General and Localized Corrosion
4. CO2 and H2S Corrosion
5. Stress Corrosion Cracking (SCC)
6. High Temperature Hydrogen Attack (HTHA)

Likelihood of Failure (LoF) and Technical Modules on RBI
1. Overview of Process for Likelihood Analysis
2. Generic Failure Frequencies
3. Equipment Modification Factor
4. Failure Analysis Diagram

Consequences of the Failure (CoF) on RBI
1. Determining a Representative Fluid and Its Properties
2. Estimating the Amount of Fluid and the Release Rate
3. Estimating the Type of Release and Evaluating Post Leak Response
4. Determine the Consequences of the Release
5. Financial Risk Evaluation

Application of RBI in the Oil and Gas Industries
1. Corrosion Mapping on the Refinery Processing Plant
2. Remaining Life Assessment
3. Various Case Study on RBI (level 1 and 2 Risk Analysis)
4. Team Work Study and Discussion
5. Group Presentation and Report Making

Who Should Attend:
The training participants are personals involve in production operation, safety, mechanical engineering, process engineering, pipeline, corrosion, QA/QC, inspection, and maintenance of plant facilities

Profile of the Instructor
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 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 Kepulauan Seribu became one of the instructors in Field Safety Aspect Gas Operation, in the year 2008. Year 2011 has also made several inhouse training in the field of safety in the big oil companies and Duri Rumbai Riau. As for the public training, IJK & team have experienced more than 80 execution of public training in Jakarta, Bandung 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 4 gas plant in Palembang area, processing area in the design process and waste treatment equipment laboratory environment in Pare-Pare in South Sulawesi, and field piping 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.

Notes:
1. Venue to be advised
2. The course will be in Bahasa Indonesia
3. Text & Handouts English & Bahasa Indonesia

REGISTRATION

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Terms & Conditions:
1. A confirmation letter will be sent to you upon receiving your registration
2. Any cancellation must be in writing and received by 7(seven) working days prior to the course date, otherwise full fee will be chargeable to your account