An LDI Training Course

COMPRESSORS and COMPRESSION SYSTEM

by

Rachmat Sudjana, S.T.

Introduction

This course provides Engineers and Company Staff, who seeking an in-depth understanding of centrifugal, reciprocating, and screw compressors

This will cover the discussion of gas Compression System including the gas storage in the Pipeline known as line packing to be use in peak usage system.

The Aims

It is important to understand the basic knowledge of compressor types and associated auxiliary systems, mechanical design of equipment, operating and performance characteristics, control and monitoring systems, maintenance practices, and codes and standards.

Course Contents

- How to size, specify, and select compressors
- Compressor auxiliary systems
- Series and parallel application of compressors
- How to integrate compressor systems into process facilities used in the oil and gas industry
- How to use state-of-the-art monitor and control devices in the operation, maintenance, and troubleshooting of compression systems
- How to apply maintenance practices to improve compressor reliability

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- Shop and field performance testing
- Compressor economics including OPEX vs. CAPEX considerations
- Types and application of compressors
- Selection criteria of dynamic and positive displacement compressors
- Compressor thermodynamics and operating characteristics
- Performance curves and off-design evaluations
- Key compressor components and other auxiliary systems
- Equipment specifications
- Compressor controls and monitoring devices
- Driver and gear involvement
- Installation, operation, maintenance practices, and troubleshooting
- Economic considerations
- Application of Standards and Codes
    - API 618: reciprocating compressors
    - API 619: rotary compressors
    - API 681: liquid ring compressors
    - API 672: centrifugal air compressors1
    - International Standard ISO 53882

Who Should Attend

Facility Design Engineers, Operations Engineers, Mechanical Engineers, Electrical and Instrument Engineers, and other personnel who will involved in the gas operation system

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Your Course Leader

Rachmat Sudjana, ST

Education: University of Indonusa, Industrial Engineering AKAMIGAS, Mechanical Engineering
Qualification: Instructor for Oil and Gas Industries and Pulp & Paper Mills

Other Qualifications: Lecturer and Mentor for Graduate Engineering Trainee – Engineering Manager - Senior Staff Pipeline/Facility Engineer – Pipeline Material Selection Specialist

He was a retired Oil & Gas Industry practitioner, who is willing to share his knowledge and experience to the next engineer's generation who need them.

He has a lot of experiences in the Oil & Gas Industries domestic and abroad in the World Class Oil Companies, such as working in the oil field in the north edge of Sahara Desert, Africa next the south shore line of the Mediterranean Sea. As soon as he retired, he had a particular assignment as a Company Engineer in Foster Wheeler, Reading, next to London, UK.

He completed the assignment and get a lot more experience after the completion of the project. A long with his engineering tasks, he was also mentored the engineer's new hired in the company to facilitate them for their future to hold more responsibility. He is willing to improve the knowledge by sharing them to others. He also presented some of technical papers in the national and international forums.

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

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For course registration and more information please email to

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