



ASSETS PROTECTION COMPANY
SECURITY AND SAFETY TRAINING CENTER
(A DIVISION OF SAUDI PETRO GAS CO.)

Hydraulics & Pneumatics

Objectives:

The objective of this course is to provide, enhance and promote safe technical knowledge and practices concerning actual day-to-day tasks of the trainees, wherein after the completion of the program, the participant will be able to:

- Understand the basic Hydraulics & Pneumatics concepts as well as have an understanding of Industrial Circuits and its applications.
 - Operation & Control of Hydraulic & Pneumatic components like Hydraulic Cylinders Direction Valves, Pressure Valves, Pumps, Accessories i.e. Pipes, Hoses, Valves, Seals, Packing, Gauges etc., and carry out preventive maintenance
 - Carry out selection, servicing, maintenance, removal, etc. of Hydraulic Pipelines, Air Compressors, Air Filters and Electro-Hydraulic Valves.
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Course Subjects:

- Review of Basic Hydraulics & Pneumatics
 - Industrial Pneumatics
 - Industrial Hydraulics
 - Hydraulic Cylinders
 - Direction of Control Valves
 - Concept of Pressure Control
 - Accessories
 - Pumps
 - Industrial Circuits
 - Hydraulic Pipelines, Air Compressors, Filters & Cylinders
 - Electro-Hydraulic Valves
 - Preventive Maintenance
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Participants:

- Technical Staff, Maintenance and Production Supervisors

Methodologies:

- Pre-Training Assessment
- Class Room sessions
- Plant / Work visits
- Evaluation – Written & Practical Test, Oral / Viva-Voce Test

Duration:

- Evaluated based on Trainees' Profile / Client Needs
- Eight (8) to twelve (12) Weeks in general at 5 days of 8 hours.

Course Location:

- Security and Safety Training Center, Dhahran or at Client's Suitable Venue

Language:

- English / Arabic