

AMERICAN GLOBAL INSTITUTE  
FOR PRIVATE TRAINING



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EXTERNAL TRAINING COURSE FROM 2020 TRAINING PLAN

*A Mechanical Engineering Training Course:*

***HYDRAULIC AND PNEUMATIC MAINTENANCE AND TROUBLESHOOTING***

*From 01/03/2020 To 05/03/2020*

*UAE, Dubai, City Seasons Hotel*

*Arabic & English Language (Bilingual)*

*850 KD (For Participant Note Less Than 7 Participants)*

*950 KD (For Participant – (3-7) – Participants)*

*1100 KD (For Participant Less Than 3 Participants)*

***Description & Objectives***

Acquiring knowledge about the fundamentals in hydraulics and pneumatics, and getting familiar with the basics of hydraulic components with the aim of better understanding of hydraulic systems applied in technical systems.

***Training Methodology***

The training methodology combines lectures, discussions, group exercises and illustrations. Participants will gain both theoretical and practical knowledge of the topics. The emphasis is on the practical application of the topics and as a result participant will go back to the workplace with both the ability and the confidence to apply the techniques learned to their duties.

***The Course Content***

***Day One:***

Measure The Volume, Capacity, Velocity, Flow And Speed In A Hydraulic System.

Explain The Mechanical Advantages Of Using Hydraulic Power.

Explain The Basic Principles Of Hydraulics.

Describe Quantitatively The Relationship Between Force Area, And Pressure.

***Day Two:***

Interpret Graphic Hydraulic Diagrams.

Identify The Six Essential Elements Of A Hydraulic Circuit.

Describe The Function And Types Of Hydraulic Pumps.

Assemble A Basic Hydraulic System.

*Day Three:*

Scheduling Of Maintenance for Hydraulic and Pneumatic Equipment.

Applying Preventive Maintenance to Maximize Service Life.

The Importance Of Filtration And How Contamination Can Effect Service Life.

*Day Four:*

Perform Routine Preventive Maintenance To Ensure That Machine Continue To Run Smoothly.

Inspect Fluid Levels, Replace Filters, Hose And Tube Fittings Or Perform Other Maintenance Actions, Following Checklists.

Clean, Lubricate, or Adjust Parts, Equipment, or Machinery.

*Day Five:*

Workshops

Practical Cases

Group Exercises

