Hydraulic Fracturing Applications

TG104

Course Overview:

After completing this course, trainees should be able to describe the basic components and common types of single-acting cylinders and double-acting cylinders. They should also be able to describe the basic components and operation of common types of vane motors, gear motors, piston motors, and partial rotation actuators.

Course Objective:

Explain the basic principles of hydraulic system operationIdentify the basic components of a typical hydraulicFracturing ApplicationsDescribe the general operation of a typical hydraulic systemDescribe the basic components and operation of Fracturing ApplicationsDescribe the basic components and operation of a single-acting spring return cylinder

Course Outline:

-Introduction to the fracturing process and mechanics
-Practical fracture design
-Fracturing fluid additives and proppant
-Strengths and limitations of fracturing applications
-Production increase
-Factors involved in field implementation
-Acid fracturing vs. proppant fracturing
-Frac packs
-Waterfracs
-Fracturing in horizontal wells
-QA/QC of fracturing treatments
-Evaluation of fracturing treatment success

Who Should Attend:

Mechanical, Operation, Production, and Maintenance Engineers Senior Technicians should benefit from this course. Also Senior Technicians should update and refresh their knowledge by attending this course.

Training Language:

EN / AR

Training Methodology:

-Presentation & Slides
-Audio Visual Aids
-Interactive Discussion
-Participatory Exercise
-Action Learning
-Class Activities
-Case Studies
-Workshops
-Simulation