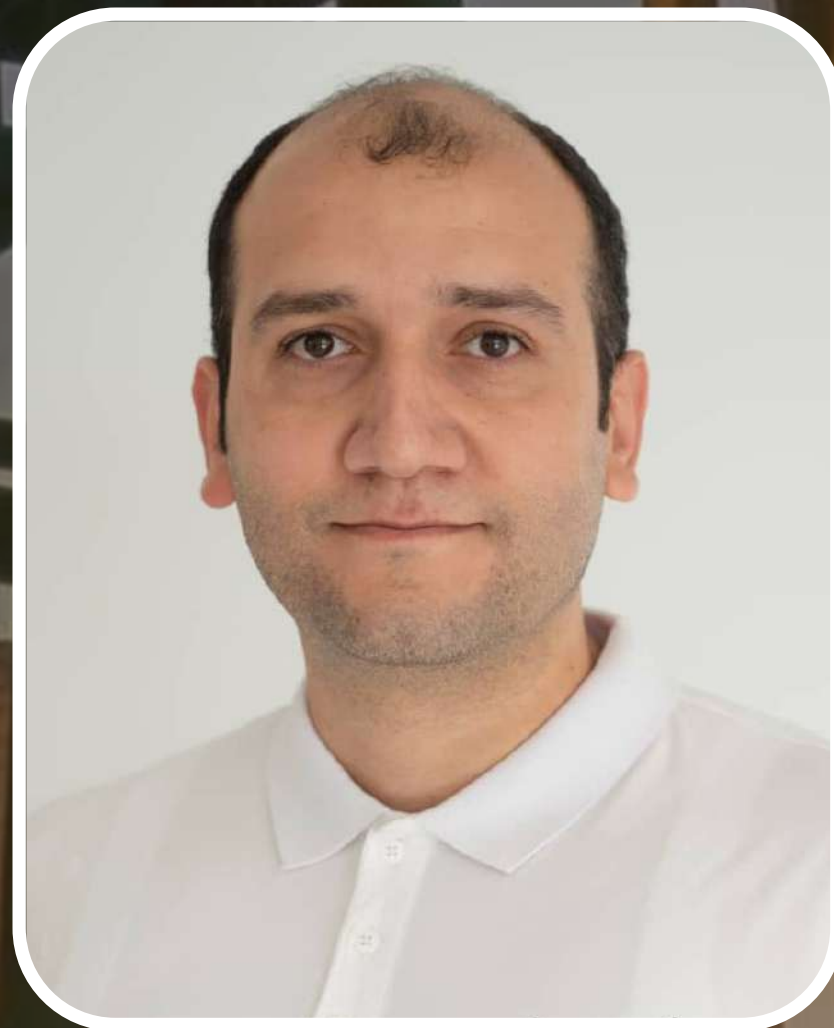


# 3 Days Online Training Program On Well Stimulation and Advanced Acidizing



**Mr. Peyman Daneshfar**



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## **COURSE OBJECTIVE**

- Introducing the geological and basic reservoir properties
- Introducing the formation damage concept and mechanism
- Introducing the impact of skin damage effect on productivity for both vertical and horizontal wells
- Introducing various types of stimulation treatments to remove formation damages.
- Scale Removal
- Matrix acidizing
- Basic of Acid/Hydraulic fracturing Treatment
- Introducing various types of stimulation fluid and also How candidate the well to be stimulated
- Develop the ability for planning, designing, executing and monitoring the well stimulation job
- Introducing a variety of acid types, additives and their performance and also diverter
- PreFlush and Overflush definitions, Limitations & Performances
- Acidizing laboratory test (Compatibility test, Divertor performance test, emulsion test, corrosion test, Sludge test, ... )
- Field equipment for well stimulation
- Basic of Coiled Tubing and CT Acid Operations
- Basic of Stimulation Vessel Operations
- Introducing some new stimulation/EOR technology
- Training using Simulation Software



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## ABOUT COURSE

- According to each oil and gas well, in term of geology (Carbonate/Sandstone), reservoir's characteristics, production conditions/history and depend on the formation damages type, need appropriate technique to stimulate well to enhance well production (or sometimes to keep well production stable).
- This training course explains fundamentals of well stimulation (Scale Removal, Acidizing) and encompasses advanced applicable considerations through stimulation job design plan and operations procedure.
- Depend on the real data from the oil and gas wells, suitable stimulation plan are designed for several wells with the cooperation of participants. by placing the well data in the using Simulation Software, training on acidizing simulation is also carried out.
- The course is delivered through lecture, videos and animations, combined with practical case studies and job examples. An interactive assessment format will be used to establish the prior knowledge of participants and to provide a measure of the learnings developed during the course.



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# DAY WISE AGENDA/ MODULE

## DAY 1

- Welcome
- 1<sup>st</sup> Day Quiz
- Concept of Formation Damages, Skin Factor, Well Stimulation
- Well Stimulation Techniques
- Stimulation Candidates Selection
- Geological and basic reservoir properties
- Deposition and Scale Definition
- Scale Removal Procedure
- What is an Acidizing?
- Acid/Bases/Salts Definition
- Acidizing Treatment Type and definition (Wellbore Wash, Matrix and Fracture Acidizing)
- Acidizing Effect on Formation Damages
- Acidizing Additive Types, definitions and their effects on Operations
- Diversion Techniques, definitions and Performances
- Basic of Coiled Tubing and CT Acid Operations



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## DAY 2

- Review Day 1
- Acid Laboratory Test Type and Procedure
- PreFlush and OverFlush definitions, Limitations and Performances
- Basic principles in Wellbore Wash and Matrix Acidizing
- Basic of Acid/Hydraulic Fracturing (Modeling, Fluid, Proppant, ....)
- Acid Job Design Procedure, Considerations and Limitations
- Acid Volume Calculations and effective parameters
- Acid Pumping Pressure Calculations, Limitations and effective parameters
- Acid Injection Rate Calculations, Limitations and effective parameters
- Acid Job Evaluations
- Introducing Onshore/Offshore stimulation job equipment & Rig up procedure
- Basic of "Stimulation Vessel" operation Procedure

## DAY 3

- Review Days 1 and 2
- Introducing some new stimulation/EOR technology
- Prepare some practical Acidizing Job depend on real well data
- Simulation Jobs with using Simulation Software
- Basic Simulation Software Training
- Last Day Quiz
- QA Meeting



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## BENEFITS OF JOINING COURSE

- Knowing the main principle about well stimulation (especially Acidizing and scale removal)
- Understand the formation damage concept and mechanism
- Understand the impact of skin damage effect on productivity
- Gain knowledge about various types of wellbore treatments to remove formation damage
- Understand the Acidizing Treatment Type and definition
- Learn basic of Acid/hydraulic fracturing
- Knowing Acidizing Effect on Formation Damages
- Knowing Acidizing Additive Type, definitions and impact on Operations
- Learn Acidizing laboratory test
- Learn to calculate Stimulation fluid/Acid Volume and also definite the additive dosage
- Learn to calculate optimum rate and pumping pressure
- Learn basic of Coiled Tubing and CT acid operations
- Understand Acid Job Design Procedure, Considerations & Limitations
- Learn how to evaluate an Acid Job Operation
- Learn Acidizing using Simulation Software
- HSE and Acidizing safety and environmental protection



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## WHO SHOULD JOIN THE COURSE

- Well Stimulation Engineer/Well Intervention Engineer
- Well Service Field/Technical/Lab Engineers (& Also Service Supervisors)
- Well Completion Engineers, Managers and Team Leaders
- Drilling Engineers & Drilling Engineering Managers
- Production, Well Intervention & Workover Engineers & Technologists
- Petroleum/Reservoir Engineers
- Petroleum Engineering Student



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