

Stimulation Training Courses

&

Consulting

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FracPT FZE was founded in the United Arab Emirates in 2010 as a subsidiary of Hunimex Ltd, which has been active in training and consulting for more than 20 years.

Activities in the petroleum sector have included compilation of stimulation and equipment manuals, preparation and presentation of courses in acidizing and fracturing, testing and training of stimulation software programs, controlling, advising and auditing well injection treatments, auditing to ISO-9000 standards, research into sands and proppant availability, and presentation of technical lectures in acidizing, fracturing and oilfield chemistry. We have also assisted in start-up operations, training and assisting our clients in operations such as Coiled Tubing and cementing.

Experts are available for assisting clients during well stimulation operations – Designing and assisting in selection of the proposed treatment, ensuring that the job is executing according to plan, and conducting Quality Control & Quality Assurance on-site.

We would be happy to quote you for any of the above activities. We can offer customized courses designed for the specific requirements of our clients, and can present these in-house, in field locations, or any specific location required, including our own conference center based in Hungary.

FracPT supplies technical, operational and business specialists dedicated to providing our clients with the highest standard of education in a positive, relaxed and enjoyable atmosphere. Our consultants are based globally and are distinguished in their respective technical areas of expertise.

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Short Courses - 1/2 - 1 Day

- Beginners guide to Well Stimulation
- Introduction to Matrix Acidizing
- Introduction to Hydraulic Fracturing
- Introduction to Wellbore Cementing
- Mining & Manufacture of Proppants
- Oilfield 101

Full Courses – 1 – 5 days

- Formation Damage and Remediation
- Matrix Acidizing
- Acid Fracturing
- Propped Fracturing
- Wellbore Cementing
- Unconventional Well Stimulation
- Advanced Cementing Practices

Manual Creation

- Acidizing Practical Manual
- Acidizing Materials Manual (for Customer product range)
- Fracturing Practical Manual
- Fracturing Materials Manual (for Customer product range)
- Cementing Practical Manual
- Cementing Material Manual (for Customer product range)

Typical Introduction to Stimulation – 1 Day short course

Morning Session 8:00 – 11:30

- Student Introduction/Course Expectations ½ hr (Instructor/Students)
- Basic Fundamentals of Carbonate & Sandstone Acidizing
- Well, Reservoir & Fluid properties, Damage & Skin
- Coffee Break ¼
- Introduction to Acids and Additives
- Candidate Selection & Laboratory Testing
- Lunch 11:30 12:30

Afternoon Session 12:30 - 5:00

- Basics of Hydraulic Fracturing (fracture initiation, propagation, fracture conductivity, FcD)
- Basics of Fracture Design (Fluid selection, proppant selection)
- Candidate selection for propped fracturing
- Coffee Break ¼ hr
- Understanding production mechanisms in fracture stimulated wells
- Range of possible production improvement from fracture stimulation
- Evaluating post-fracture production (welltest analysis vs. reservoir simulation)
- Review Expectations and Feed Back ½ hr.

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Typical 3 Day Matrix Acidizing Course:

Day 1 - Morning Session

- Basic Fundamentals of Acidizing
 Fundamentals of carbonate Acidizing
 Fundamentals of sandstone Acidizing
- Well, Reservoir & Fluid properties

<u>Day 1 – Afternoon Session</u>

- Damage and Skin
- Candidate Selection

Day 2 - Morning Session

Acid Types

HCl

HF

Organic Acids

Non-Acids

<u>Day 2 – Afternoon Session</u>

Acidizing Additives - Introduction
 Inhibitors
 Surfactants, Anti Sludges, and Demulsifiers

Day 3 - Morning Session

Acidizing Additives Continued
 Mutual Solvents
 Iron Control
 Diversion and Diverting Agents

• Day 3 - Afternoon Session

- Laboratory Testing for Acidizing Design
- Acidizing Design Software

Design & Operational Consulting Services

- Matrix Acidizing (and non-acid) Treatment Design
- Independent On-Site QA/QC & customer assistance of matrix treatments
- Hydraulic Fracturing Treatment Design
- Independent On-Site QA/QC & customer assistance of Frac treatments
- Set-up of new locations
- Start-up of in-house or well-site laboratory testing facilities
- Training of field personnel.
- Running Cement U-Tube control tool

FracPT can supply the necessary personnel to conduct Third Party control of wellsite operations to ensure the treatment goes correctly, according to plan, and to make an independent report to ensure any potential errors are spotted and eliminated where possible. We will work with any customer-chosen service company to ensure good communications between all parties and maximize the success rate of the treatment.



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Sample Manual Index

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Carbonate Acidizing Manual

Volume I - Best Practices

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Volume I - Best Practices

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