



# 2 DAYS ONLINE TRAINING ON **WELL COMPLETION**



**JOVAN STOJKOVSKI**



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## Why should you attend this Training Course?

If you are passionate engineer in Energy industry or in specific O&G or LCB this will be great opportunity to develop your skills in well completion engineering environment. This training course will give you opportunity to learn how to design well completion which can answer all requirements for long well life considering tubing, completion tools and packer selection, XMT selection and operational steps and equipment required to conclude whole well completion job.

The design of well completion is required to satisfy several objectives including:

- Ensure safety operation
- Provision of optimum production/injection performance
- Maximize the integrity and reliability of the well completion over the well life
- Optimization of the well completion fit-to-purpose and costs per unit volume of fluid produced or injected, maintaining primary goals

## This well completion training course will feature:

- The main functions of completion and design considerations
- Developing a high-level completion strategy for different well types
- Select tubing, packers, and essential completion equipment
- Understand production technology requirement implementation in well completion design
- Wellhead and XMT Equipment selection
- Perforating Operations strategy and gun system selection
- Completion operation and related involved services



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## What are the Goals of this training?

By the end of this well completion training course, participants will be able to:

- Evaluate for a given reservoir scenario the bottom hole completion options and make a recommendation based on target goals and reservoir management requirements
- Identify, evaluate and recommend functional capability of completion strings for a variety of well types
- Describe the purpose and generic operating principles for major completion equipment components
- Identify limitation of well completion designs and potential failure mechanisms/operational problems with equipment
- Assess well safety requirements and capabilities inherent in well design
- Describe the integration of the various stages of completing a well
- Plan general procedure to run a completion string and engagement of external services
- Describe the requirements to pressure test and retain well control throughout the completion process



## Who is this Training Course for?

This well completion training course is suitable to a wide range of professionals but will greatly benefit:

- Petroleum Engineers (drilling and completion engineers)
- Production Technologists
- Drilling and Well Servicing Personnel (Drilling Manager, Drilling/Well Engineers, Completion and Well Service Engineers, Drilling Supervisors, Rig Manager, Tool pusher, Drillers)
- Production Personnel (Production Operators)



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## How will this Training Course be Presented?

This well completion training course will utilize a variety of proven learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The daily workshops will be highly interactive and participative.

### Organizational Impact

The organization will gain, in sending their employees to attend this well completion training course, the following:

- Reduction in the cost of the well & the proper selection of production string / completion components
- Extending the well life and optimizing well completion to achieve the optimum production
- Ensuring the well integrity and avoiding minimizing the risks

### Personal Impact

- Obtain integrating knowledge of extended well completion design
- Develop well completion knowledge and get the self-confidence in designing proper completion
- Get the latest technology in well operations
- Solving and avoiding the problems which can have impact on the production or well integrity



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# Daily Agenda - Well Completion Training

## Day 1

- Introduction to Well Completion
- Well Completion design and planning process
- Reservoir (Well) Completion & well types
  - Reservoir Considerations
  - Well Completion Design & mechanical Considerations
  - Well Completion types (NF, AL, OH, vertical/horizontal, single and dual completion)
- Production Technology consideration (AL, SC, FA, Stim) & completion components
  - Artificial lift
  - Sand control
  - Flow assurance
  - Stimulation
- Tubing stress analysis & tubing selection
  - Packer envelope
  - TBG/PKR interaction (fix/free to move)
  - TBG size/grade/weight/connection/metallurgy consideration/selection
- Packer selection
  - Production Packer functions
  - Packer Types
  - Packers Generic Mechanisms
  - Permanent and Retrievable Packers
  - Locator Seals and Anchor Seals
  - Applications for Permanent and for Retrievable Packers
  - Setting Packers



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## Day 2

- Completion tools selection
  - Subsurface safety valves function/types
  - Flow control devices (FLCP, SSD, LN & plugs)
  - DHG and CIM systems
  - OH completion tools
- Completion fluid selection
  - Function of completion fluid
  - Selection of completion fluid
- Wellhead and XMT Equipment selection
- Perforating Operations strategy and gun system selection
  - Perforation methods and perforating equipment
  - Perforation selection and conveying methods (WL, TCP)
  - Perforating decision tree
- Well completion operation steps and related services
  - Running the completion
  - Services needed during completion operation (SL, CT, TRS, Fluids, perforating, WBCO)
  - Well intervention during and after well completion
  - Future consideration in completion design
  - Well barrier philosophy during well interventions



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