Training Course

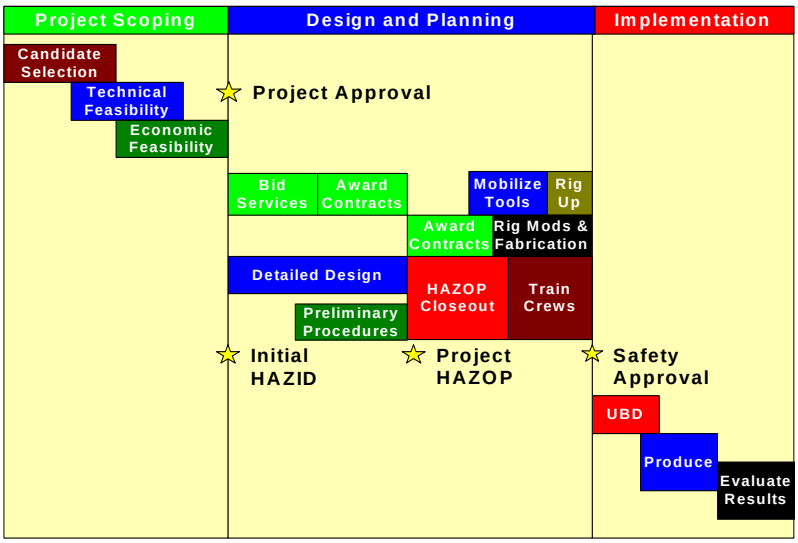
Advanced Underbalanced Well Design

Join the revolution of technical professionals who have learned how to properly evaluate, design, and execute Underbalanced Projects. Industry interest in underbalanced drilling (UBD) is increasing due to evidence proving that proper application can significantly enhance both initial production rates and ultimate recovery. Achieving this benefit requires UBD wells to be properly evaluated, designed, and executed.

Who Should Attend

This course targets operator and service company personnel interested in transforming a basic awareness of underbalanced drilling into an applicable understanding of this emerging technology to optimize engineering well designs and effectively manage critical UBD projects.

In addition to the technical aspects of well design, the course emphasizes the practical aspects of planning, safety management, and operational practices needed to ensure successful implementation. The inter-relationship between these topics for a well-managed project is shown at right.



Highly Qualified Instructors

The course is taught by industry respected experts who have planned and executed some of the most challenging underbalanced wells in the industry.

Course Agenda

Day 1	• Overview of Underbalanced drilling • Methodology for screening and evaluating UBD candidates • Estimation of UBD benefits	• Risk-based economic evaluation of UBD projects • Class examples
Day 2 - 3	• Importance of flow modeling in UBD design • Fundamentals of multi-phase flow modeling • Use of Neotech's Wellflo-7 to model UBD operations	• Class examples • Application to UBD well design— • defining the operating envelope
Day 4	• Selection of UBD technique • Selection and sizing of bottom hole assemblies • Selection and design of fluid systems	• Selection and sizing of surface equipment • Safety, environmental and regulatory issues
Day 5	• Operational Considerations – Procedures and problems • Well Control Principles	• Project management • Examples of successful projects

Schedule and Cost

Courses are coordinatied in partnership with the PetroSkills training alliance which includes ARAMCO, BP, Chevron, ConocoPhillips, Halliburton, Oxy, Marathon, Repsol and Shell as members. Please go to WWW.PETROSKILLS.COM for course schedule and rates.