



A Comprehensive Training Program for the Oil and Gas Industry

Perspective

Drill-Sense offers a compelling suite of training courses designed for a broad spectrum of well construction personnel. We deliver highly efficient and finessed course curriculum which appeal to everyone involved in the well planning, construction, and production. Perfectly designed courses which combine a balanced engineering and operation will be valuable to operators, contractors, and service sector. Our courses can be tailored to client needs for an in-house delivery or synchronized with regional concerns.

Our courses are popular and have been recognized by our customers as practical, balanced, carries technical depth and breadth, and enriched with team work on real case studies to enforce the learning experience.

The complete training suit is the finest and most comprehensive short courses in the drilling industry. We have been there from the arctic, the ultra deepwater, subsalt, on shore or offshore HPHT wells!! our experience is catered to help your team plan, drill, and produce your well safely and at the highest performance level.



Training is our passion



Our Training is

- + Driven by passion to pass on life time knowledge to the next generation of industry professionals
- + Fostered by DSI's core competencies in drilling technologies
- + Endured by a conscientious balanced approach of engineering and operation emphasis

IN-HOUSE COURSES

DSI can deliver customized drilling training to you anywhere in the world. We can engage your team in bringing your specific field problems and field cases to be part of the training.

IN-HOUSE MENTORING

DSI offers an in house mentoring and coaching to help train your company professionals. We work side by side with your team on your current projects. This approach has multiple benefits; It will improve product quality and the productivity of the team, provide focused training and convenience.

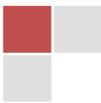
Training Partners

-  Entrac Petroleum (EPL)
-  Others to be announced soon

Courses Offered

-  **Well Construction Engineering (2 weeks)**
A two weeks intensive practical course focused on every aspect of well design from pre spud to post mortem. The course offers hands on learning experience with real time trouble shootings and drilling analysis to enhance drilling safety and performance. This course is a must for any level of drilling team expertise. This course will be offered with our partner Entrac Petroleum (EPL).
-  **Introduction to Petroleum Engineering (1 to 4 weeks)**
A comprehensive review of petroleum engineering topics covering all fundamentals in reservoir, drilling, and production engineering. The course is ideal for “converting” engineers from all disciplines to the petroleum engineering field. The course can be tailored as per client request from one week to 4 weeks, or even more as per negotiated arrangement. It is expected that a multidisciplinary team of experts will be devoted to teach this course.
-  **Practical Geopressure Prediction (5 days)**
This 5 days course draws on DSI’s rich experience of pore pressure analysis from all active basins around the world. We emphasis the fine details and best practices involved in pore pressure prediction. Our course is second to none in its coverage of theoretical foundation based on sound rock physics and offering practical prediction approaches to non clastic rocks.
-  **Practical Geomechanics for Engineers (5 days)**
This 5 days course offers a comprehensive understanding of wellbore stability issues and clearly demonstrates best practices for optimal mud weights, more stable wellbore trajectories, and improved evaluation of stability in uncased wells. This course is a must for everyone involved in drilling operations. Classical fracture mechanics theories and prediction, leak off testing, fractured rock, uncertainty analysis among other topics will be covered.
-  **Casing Design (5 days)**
This one week course is a comprehensive review of tubular designs for a complete well from drive pipe to production casing with ample explanation of current industry best practices and methodologies.
-  **Stuck Pipe Prevention (5 days)**
This one week course is highly focused on proactive measures and operation best practices to prevent stuck pipe problems. In depth review of the hole problems that cause pipe sticking will be covered with numerous field examples.

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 **Practical Solids Control (3 days)**

This 5 days course is a contemporary review of solids control equipment design, equipment performance trouble shooting, rig auditing procedures, managements and economics. It offers an exhaustive list of field rules of thumbs and best practices and emphasizes total system performance evaluation. The student will quickly appreciate the value of extensive use of practical problems to be solved in class which emphasis system performance evaluation.

 **Deepwater Drilling Practices (10 days regular, can be 5 days upon request)**

This course offers a compelling critical treatment of the challenging drilling condition in deepwater. The course delivers the knowhow on the important aspects of well planning and construction process. The first part of the course deals with the unique aspects of deepwater wells which make them stands apart from typical land drilling. Deepwater shallow hazards from shallow water flow to hydrate are covered in details. The major focus on predicting the drilling window starting from pre drilling seismic data on to the real time diagnostics. The second part of the course focuses on the real time management of the drilling window. This course is a must for any one working on deepwater drilling. The course will discuss design and operation aspects of the different phases of the well construction including riser design, dual gradient drilling, shallow sediments geoharards, and finally deeper formations with high pressure and temperature environment.

 **Drilling Fluid (5 days)**

This course offers full compliments of contemporary topics in the design and management of a drilling fluid program. The course starts with important considerations related to the selection of proper drilling fluid for any given drilling condition. The interaction of drilling fluid and the wellbore rock impacting wellbore stability is heavily emphasized. The course will address the basic drilling fluid testing, rheology, API standards, and general discussion on environments and solids control issues.

 **Real Time Drilling Diagnostics (5 days)**

This course offers a unique perspective on everything needed by a drilling engineer to detect, diagnose, and resolve hole problems based on real time drilling data (surface and downhole) transmitted at the rig site and received a real time operating center (RTOC). The data is analyzed for proactive detection of problems from stuck pipes to bit wear and bit balling. How to make proper diagnosis based on advanced drilling simulation (well finger printing) is highly emphasized. Best practices to deal with diagnosed problems are then outlined.

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Drilling Optimization (5 days)

This course reviews published knowledge on drilling mechanics and how the different variables affects drilling rate. The second part of the course addresses drilling optimization using different approaches (mechanical specific energy, modeling) and shows how to diagnose bit performance short comings. The course will address maximizing drilling performance and the technical limit for a given rig equipment.

Subsalt Drilling (3 days)

This course offers a unique perspective of drilling issues in and around salt bodies. The drilling challenges were highlighted and best practices were defined. The course is a must have for drilling professionals who plan and supervise drilling in any well penetrating or in proximity of salt bodies with special critical needs in deepwater wells.

