

Drilling

Randy Smith Training Solutions has been conducting technical training courses for the petroleum industry for more than two decades. Annually, we train 30,000 people in 40 countries and 15 languages. Some of our courses are IADC and IWCF approved and all are taught by experienced instructors who provide hands-on training, both in a classroom setting and onsite.

Well Control

Randy Smith Training Solutions offers introductory, fundamental and supervisory level courses for the following well control certifications: surface and/or surface/subsea stack drilling, workover and completion, combined drilling/workover/completion, coiled tubing, wireline and snubbing and IADC WellCAP Plus. Courses are available in a modular format and range from one-day to six-day workshops. All instructors are fully certified by the IADC and/or IWCF, and courses can be customised to meet specific needs. Drilling simulators are utilised during well control workshops and can be brought to a client's location.

High Pressure High Temperature (HPHT)

Usually customised for a particular operator, drilling rig and well, this course introduces HPHT fundamentals to the rig team, focusing on concerns and challenges specific to HPHT drilling and well control. It is an excellent forum for discussion and brainstorming of site specific HPHT policies by both the rig and office based team.

Stuck Pipe Prevention

Focused on preventing the most costly of drilling-related problems, stuck pipe, and the mechanics of what causes sticking. Preventive measures are explored to avoid getting stuck, including warning signs of an

impending problem and ways to break the chain of events leading to stuck pipe. In the event of a problem occurring, initial steps are outlined to minimise the event and get free quickly.

Drilling or Completing the Well Optimisation Process (DWOP/CWOP)

Capturing the synergy of combining two important drilling concepts: the Technical Limit Process and the Continual Improvement Process. The Technical Limit Process is the construction of a theoretical well, assuming flawless operation, based upon current knowledge and design technology. The drilling team is assembled and asked to review the well plans with respect to the Continual Improvement Process: Plan – Do – Analyse – Improve, during which various scenarios may be developed for discussion and, where applicable, well control scenarios can be examined through use of a simulator. The team then develops a plan to improve performance based upon lessons learned. The result is a bridging document, which challenges the contractor to perform in the real world and also satisfies the operator's desire to control project costs.

Training to Reduce Unscheduled Events

Focused on developing a team approach to solving the many challenges of drilling wells, this course is designed to train the entire drilling rig crew and service personnel. Issues include understanding the underpinning principles and then developing custom procedures and activities to prevent well specific problems from occurring. These may include stuck pipe, lost circulation, well control and other unscheduled events.



Drilling Practices

Emphasising practical drilling practices, this course is intended for drilling engineers, tool pushers, drillers, assistant drillers and anyone else interested in or requiring information, practices and procedures that can be readily applied to field operations. A thorough understanding of the "big drilling picture" is delivered by providing information about proven field drilling practices centred around "listening" to the hole and recognising and interpreting trends.



Air Drilling Practices

This three-day workshop introduces the differences between air and mud drilling while placing emphasis on air drilling techniques and specifics. Course content includes:

- Introduction to air drilling
- Specialised equipment
- Pressure control equipment
- Hole cleaning
- Drilling trends
- Making connections and tripping
- Water inflows
- Shallow hole pack-offs
- Tight hole and stuck pipe
- Downhole fires and burn-offs

Drillstring Failure Prevention

This course creates drilling crew awareness of the causes of drillstring failure. Training provides the crew with recommended care and handling practices to extend the life of the drillstring. Technical information, such as proper torque and tension limits, is reviewed in an interactive classroom setting.

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Advanced Pre-Spud

Improving the drilling team's performance by planning and discussing the program in detail, this course also reviews how to avoid unscheduled events or incidents such as stuck pipe, lost circulation and/or well control.

Drilling Overview

Designed to provide participants with a thorough understanding of procedures used to drill a well and problems that can be encountered. This course is excellent for new employees, office personnel or anyone who is associated with drilling but might not be involved with it day-to-day.

Rig Mathematics

Randy Smith Training Solutions (RSTS) has provided rig mathematics training for over a decade. In fact, one of RSTS' instructors, Norton Lapeyrouse, wrote what has become the industry's standard publication for rig mathematics, *Formulas & Calculations for Drilling, Production & Workover* (Gulf Publishing, 1992). In this course, formulas and calculations used in drilling operations are taught and reviewed.

