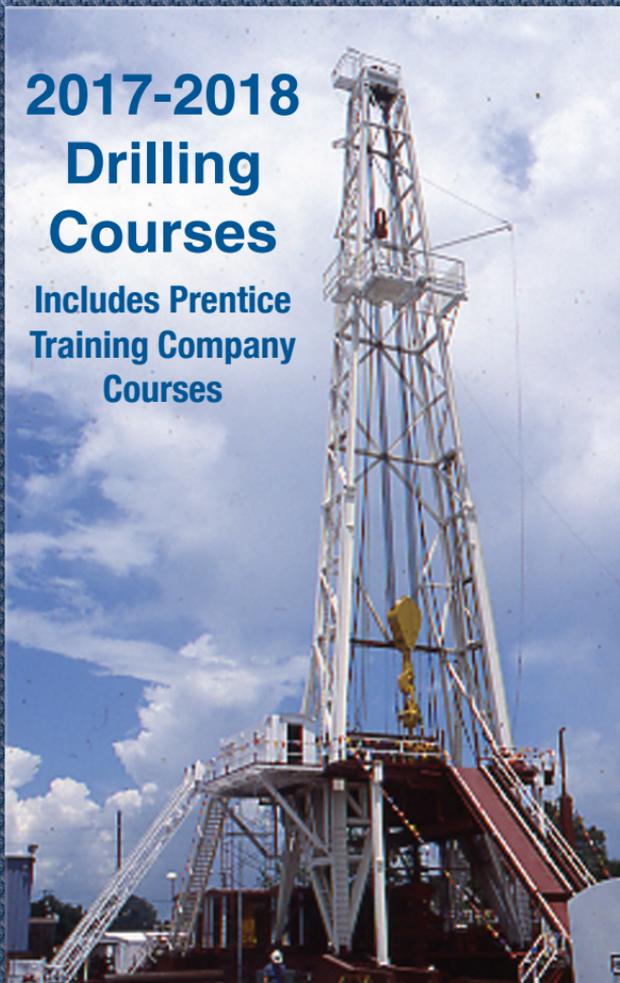


NORTHSTAR TRAINING

2017-2018 Drilling Courses

Includes Prentice
Training Company
Courses



Taught By: Calvin Barnhill



NORTHSTAR TRAINING

Northstar Training is very excited to be able to continue to teach the “Prentice Training Company Courses”. I have known Charlie Prentice for over 35 years, having taught and worked with Charlie on multiple projects during that time. My goal is to offer the same quality courses created and taught by Charlie and to continue Charlie’s goal of offering the best training in the drilling industry.

I hold both undergraduate and graduate degrees in Petroleum Engineering from Louisiana State University (LSU) and am a member of the Petroleum Engineering Honor Society. After graduating from LSU, I became licensed as a registered professional petroleum engineer and have maintained my license in full force and effect since that time.

My work career spans over 40 years in the oil and gas industry. Over my career, I have worked on a wide variety of drilling, production and reservoir projects both domestically and internationally for a wide assortment of companies. These companies include major and independent oil companies, drilling contractors and service companies. I have worked on both onshore and offshore projects worldwide. The offshore projects have ranged in water depths from shallow bay work to deepwater projects in water depths approaching 9,000 feet. Well projects have ranged in depth from 500 feet to 32,000 feet and have included HTHP environments, acid gas environments and ERD/horizontal projects. Further, I have been heavily involved in well control projects throughout my career, having worked on multiple well control projects, surface blowout projects and subsurface blowout projects worldwide.

Training has also been an integral part of my career as I have taught well control and various other drilling courses worldwide. I have taught for LSU, the University of Texas through its PETEX division, the University of Louisiana at Lafayette and various industry training services to include the original Prentice and Records Enterprises, Inc., which was a forerunner of Prentice Training Company. While with Prentice and Records, I was part of the first federally certified well control school and was one of the first certified well control instructors recognized by the US federal government. I was also actively involved with many of the other drilling courses offered by Prentice and Records.

Calvin Barnhill

Contact Information

Website: www.NorthStarTrainingInc.com
Email: office@NorthStarTrainingInc.com
Telephone: (337) 269-1662

PRENTICE TRAINING COMPANY'S ADVANCED CASING DESIGN

This short course is one of our most popular courses. It provides explanations and examples of all the aspects of oilfield tubular design. Both uniform and non-uniform loading is covered. Combination loading considerations are envisioned and design procedures are outlined and practiced. Design of tubulars for use in a corrosive environment is a new addition.

What You Will Learn

- The basis for the published API tubular strengths.
- How to design drive pipe to sustain a compressive load.
- How to design conductor, intermediate, drilling liners, and production casing strings for burst, collapse and tension.
- How to select connections.
- How to take biaxial and triaxial loading into account.
- How to perform complete buckling analysis.
- How to design for bending, point loading and ballooning.
- How to take wear into consideration.
- How temperature reduces yields strength.
- Recommended sequence for combination considerations.
- A complete integrated procedure for designing oilfield tubulars.

What Will You Take Away

- Complete knowledge of tubular design.
- Confidence that a casing string you design will stand up to practical applications.
- Design considerations and applications for H₂S, CO₂, and high CI individual and combine corrosion environment
- A manual with notes for reference.
- Software to make all pertinent tubular related calculations and to aid total design.

Who Should Attend

Engineers and engineering aids involved in tubular design, as well as practical supervisors who want to understand the basis for the design of the tubulars being run in their wells.

Lafayette, Louisiana

**October 23 - 27, 2017
April 9 - 13, 2018**

\$ 3,500.00 USD

PRENTICE TRAINING COMPANY'S ADVANCED WELL CONTROL

This Advanced Well Control School offers the student a higher level of well control training as compared to what is offered in conventional well control schools. The Advanced Well Control School's curriculum is based on a combination of advanced well control concepts and actual real life well control situations. This adaptive approach does not lend itself to the standardized cookie cutter conventional well control school approach.

Calvin Barnhill, the instructor, has been involved with many actual well control incidents worldwide. These incidents include well kicks, well pressure situations, surface blowouts, underground blowouts and surface explosions. They involve land based and offshore operations including shallow water, deep water and ultra-deep water situations. The best -known incident is the Deep Water Horizon – Macondo Well blowout. However, this is only one of many different well control situations that Mr. Barnhill has worked and can present in the Advanced Well Control School.

Furthermore, Mr. Barnhill has full access to the extensive well control information and data base of Prentice Training Company, which also has information and data from Drilling Well Control. This company was involved with the control of thousands of wells and with the well control planning for many more wells. The combination of real world experience coupled with actual information and data and advanced well control concepts makes this Advanced Well Control School a powerful addition to the well control training for any student serious about well control.

What You Will Learn

- How to minimize surface pressures and downhole equivalent mud weights.
- How to kill an underground blowout.
- How to minimize hydrate problems in deepwater well control.
- How to maximize your chances of killing any kick.
- How to minimize any kicks chances of killing you.
- How to use a horner plot to determine accurate kill mud density in tight kicks.
- How to choose a safe kill rate considering all five (5) controlling factors.
- Why the "Soft Shut In" is dangerously foolish.
- Why the "Drillers Method" is never better than the Wait and Weight.

What Will You Take Away

- The reasons why you should kill a well in a particular manner.
- The logical sequence to follow in the determination of which procedure to implement.
- How to maximize your chances of killing the well.
- How to recognize when standard well control has become trouble well control.
- Comprehensive knowledge of well control.
- The ability to recognize well control situations for the dangers they present and the knowledge of how to proceed.
- A confidence in dealing with well control situations that only knowledge can promote.

Who Should Attend

All personnel involved in drilling, completion, and workover operations who might be involved in a well control situation and want to know as much as possible about it.

Lafayette, Louisiana

**September 18 - 22, 2017
April 16 - 20, 2018**

\$ 3,500.00 USD

PRENTICE TRAINING COMPANY'S DRILLING PRACTICES

Drilling Practices is a five (5) day applications short course. The course covers all of the drilling systems, and is designed both for the new hire in drilling and as a refresher for the experienced hand. The Drilling Practices short course was created to provide "State of the Art," practical procedures for the operational driller.

The course is presented in the same sequence as the well is drilled. Planning, equipment selection, design, operations systems, and troubleshooting are the essence of the successive topics.

Calculations are part of the course. However, these are the same calculations which must be made while drilling a well.

What You Will Learn

- Formation characteristics including pressures, stresses and strengths.
- Casing point selection procedure.
- Tubular design considerations for casing and the drill string.
- Rig selection and specification.
- Hydraulic considerations:
 - Friction Loss
 - Swab And Surg
 - Cuttings Transport
 - Optimization
- Drilling Problems:
 - Stuck Pipe
 - Lost Circulation
 - Crooked Hole
 - Well Control
 - Slow Penetration Rate

What Will You Take Away

- A complete understanding of the drilling process, drilling systems, and drilling problems.
- Confidence to make decisions regarding drilling systems or problems.
- A means for optimizing drilling parameters.
- The knowledge of how drilling systems interact, and how best to compromise solutions.
- Confidence that you are current in your knowledge of drilling practices.

Who Should Attend

Drilling Practices is a must for anyone in a responsible rig-based occupation, including drilling engineers, foremen and managers, directional drillers, tool pushers, mud engineers, drillers and mud loggers.

PRENTICE TRAINING COMPANY'S WELL PLANNING I

Based on over 40 years of student evaluations, this short course is rated as the "Best in the Business". It is an applications short course covering the design of a well. As in any engineering design, the objective is to affect a "safe" design for minimum "expense". By attending this short course, you will learn how to choose the criteria for design, how to logically and efficiently perform the design sequence, and how to present the resulting well plan in a usable form.

This short course is presented in lecture form and reinforced first with practical example solutions and finally with a question - response discussion. A final project is performed in class to tie all aspects of the course together.

What You Will Learn

- The sources of abnormal formation pressures and how to quantify their magnitude.
- The models available for fracture gradient determination.
- The ethics of design.
- The criteria of design for any well.
- The actual selection of the casing points for a mechanically sound well program.
- The basics of casing design.
- The actual design of conductor, surface, intermediate, drilling liners, production liners, and the back casing strings.
- The basis for understanding and using API BULL 5C3, API Spec 5C5 and NACE MRO 175-90.

What Will You Take Away

- A working knowledge of how to quantify the formation pressure/fracture gradient system for a well you plan to drill.
- Full understanding of why casing needs to be set at certain points in a well as well as how to determine those points based on your specific criteria for design.
- Comprehension of the strengths of casing and how a specific area/well casing design is performed.

Who Should Attend

Certainly everyone who might be called upon to contribute any portion of a well program or prognosis should attend this course. Also, anyone in the operations, contract, or service industry who might have cause to follow parts of a well plan or prognosis will benefit from attending the course.

Lafayette, Louisiana

October 2 - 6, 2017
March 12 - 16, 2018

\$ 3,500.00 USD

PRENTICE TRAINING COMPANY'S WELL PLANNING II

Well Planning II short course is designed to complete the well planning procedure. Information previously presented in Well Planning I is used as a basis for rig selection, cement program, mud program, logging program and AFE generation.

What You Will Learn

- To design the drillstring for the planned well.
- To describe the ideal rig specifications for the well being planned.
- To write a request to bid letter to drilling contractors specifying minimum rig requirements.
- To identify potential problems on a hole section basis.
- To write a general well program.
- To select the right drilling fluid for the well being planned, and generate a complete mud program.
- To design and specify a complete cementing program.
- To generate a logging program.
- To estimate all associated costs involved in drilling the planned well, and to generate an AFE (Authorization for Expenditure) for the well.

What Will You Take Away

- Comprehension of the sequence and procedure of well planning.
- A complete example problem, done by you, of a well plan.
- The foundation on which your future experience in well planning can successfully build.
- The confidence to take on and complete any well planning assignment.

Who Should Attend

Personnel involved in well planning on a day to day basis and those who must execute the plan after its development. It provides further training to those individuals who have previously completed Well Planning I.

Lafayette, Louisiana

**October 9 - 13, 2017
March 19 - 23, 2018**

\$ 3,500.00 USD

NORTHSTAR TRAINING
“Worldwide Petroleum Training”
Post Office Box 51420
Lafayette, LA 70505-1420, USA
United States of America

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