

## The DS-1® Third Edition School

Available exclusively from TH Hill, The DS-1® Third Edition School will give you a practical, integrated approach for managing the integrity of your drill string structure. The three volumes of DS-1® Third Edition serve as the foundation for this three day school, and what you learn will revolutionize your approach to failure prevention.

### Manufacturing

- Manufacturing levels – Standard and Critical
- How to order drill stem components
- Metallurgical properties
- Manufacturing constraints
- New pipe grades (Z and V)
- Standardized HWDP dimensions, weights and properties
- Standardized thick-walled drill pipe dimensions, weights and properties
- Relationships to other industry standards, private and public

### Inspection

- How to set an inspection program
- Rig floor trip inspection for drill stem wear
- How to estimate accumulated fatigue damage
- New features for the DS-1® Inspection Standard in Third Edition
  - Inspecting fishing tools
  - Recutting and gaging rotary shouldered connections
  - Residual MPI inspection method
  - Full-length ultrasonic 1 inspection
  - Full-length ultrasonic 2 inspection
  - Establishing traceability on drill stem components

### Design & Operation

- Using Design “Groups”
- Integrating design needs with other drilling objectives
- Setting design constraints and design factors
- Performing an overload design
- Performing a fatigue design
  - Applying design factors
  - Selecting BHA types
  - Effects of BHA type on hydraulics, torque, drag and buckling tendency
  - Configuring upper BHA's
  - Use of fatigue design constraints BSR, SR, Curvature Index (CI), Stability Index (SI)
- Comparative design for fatigue prevention
- Maximum recommended slip cut severity
- Using NC56 connections in 8-inch BHA's
- Proper stress relief dimensions
- Proper jar placement
- Monitoring and mitigating corrosion
- Monitoring and mitigating BHA vibration
- Predicting and managing buckling

### Course Materials

You will receive the complete DS-1® three volume set (\$600.00 value):

- Volume 1 – Drilling Tubular Product Specification
- Volume 2 – Drill Stem Design & Operation
- Volume 3 – Drill Stem Inspection, plus our detailed course workbook and a copy of our Drillstring Toobox™ software (\$1,095.00 value)



Use all three volumes to integrate your drill string design and management.

## Casing Failure Prevention - The School

A sound design is just the first step in preventing casing failures. Even the best casing design can fail without proper specification, inspection and handling practices. We created Casing Failure Prevention to provide you the tools to address these key areas before you set your casing. Contact us today to enroll in our Casing Failure Prevention School, and learn to go beyond design to dramatically reduce the risk of high-cost casing failures.

### Going Beyond Design

- The three broad conditions you must meet to prevent casing failure
- The single most common cause of casing failure and how to address it
- The three ways a casing connection can fail, and the steps to take to avoid each
- How certain thread gauging practices can cause connection leaks
- Key considerations for selecting material for sour and corrosive service
- The four connection makeup methods and when to use (and not use) each
- How to specify an inspection program that meets the requirements of your well

### Additional Topics

- Yield Strength, tensile strength, ductility and toughness properties
- Manufacturing flaws and tolerances
- API codes and specifications
- Interference, shouldered and combination connections
- Casing inspection processes
- Connection sealing principles

### Course Materials

Each participant will receive Casing Failure Prevention course material and a copy of the casing specification API 5CT.



## Enrollment Information

To register for The DS-1® Third Edition School or Casing Failure Prevention, email us at [training@thhill.com](mailto:training@thhill.com) or register online at [www.thhill.com](http://www.thhill.com).

### 2011 Course Dates

#### The DS-1® Third Edition School

Mar 7-9	Houston	\$2750
Mar 20-22	Abu Dhabi	\$3450
Apr 4-6	Perth	\$3400
Apr 11-13	Houston	\$2750
May 9-11	Calgary	\$3300
May 23-25	Houston	\$2750
Jun 20-22	Kuala Lumpur	\$3300
Jul 18-20	Buenos Aires <sup>1</sup>	\$3450
Aug 1-3	Houston	\$2750
Aug 22-24	Rio de Janeiro	\$3450
Sep 12-14	Houston	\$2750
Sep 19-21	Stavanger	\$3450
Oct 3-5	Pittsburgh	\$3050
Oct 17-19	Houston	\$2750
Nov 7-9	Jakarta	\$3300

*DS-1® sponsor companies receive a 20% discount on Third Edition public training rates.*

#### Casing Failure Prevention

Mar 23-24	Abu Dhabi	\$1900
Apr 7-8	Perth	\$1800
Apr 14-15	Houston	\$1400
May 12-13	Calgary	\$1750
Jun 23-24	Kuala Lumpur	\$1750
Jul 21-22	Buenos Aires <sup>1</sup>	\$1850
Aug 25-26	Rio de Janeiro	\$1850
Sep 22-23	Stavanger	\$1850
Oct 6-7	Pittsburgh	\$1600
Oct 20-21	Houston	\$1400
Nov 10-11	Jakarta	\$1750

*Receive a 15% discount if taken in conjunction with the DS-1® Third Edition School.*

<sup>1</sup>The Buenos Aires courses will offer simultaneous translation from English to Spanish.

*T H Hill expressly reserves the right to refuse admission to any person.*

*All prices shown are in U.S. Dollars.*

### The DS-1® Third Edition School



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RAISE YOUR STANDARDS.  
WE RAISED OURS.

## The DS-1® Third Edition School

Also, address your concerns about casing integrity with our newest course offering: Casing Failure Prevention.



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