

# International Association of Drilling Contractors (IADC)

## The Changing Face of Well Control Training

Mark Denkowski  
Mike Dubose



# IADC History

75 Years: 1940-2015

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**ODC Logo, 1940-1959**  
American Association of  
Oilwell Drilling Contractors



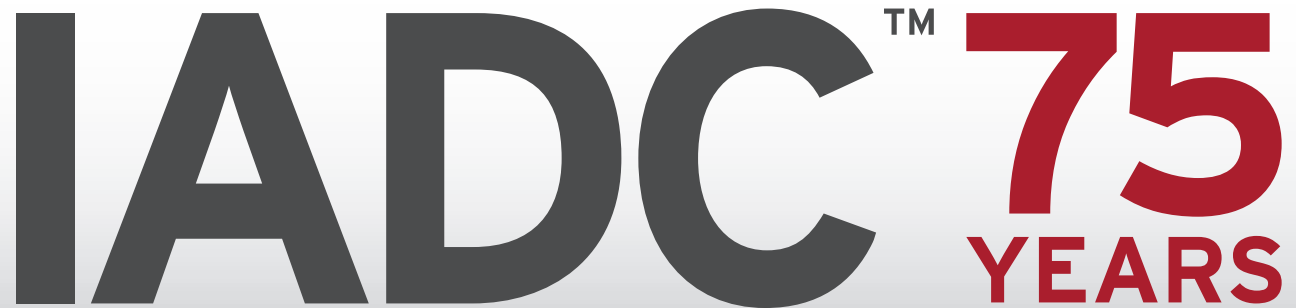
**AAODC Logo, 1959-1972**  
American Association of  
Oilwell Drilling Contractors



**IADC Logo, 1972-2014**  
International Association  
of Drilling Contractors



**IADC Logo, 2014-Present**  
International Association  
of Drilling Contractors



**IADC 75th Anniversary Logo, 2015**  
International Association of Drilling Contractors



**Founded as the American Association of Oilwell Drilling Contractors in 1940 by a small group of Drilling Contractors meeting in Chicago, Illinois.**

**The period from 1940 to 1972 was characterized by independent-minded businessmen focused on advancing the art and science of drilling.**

- In 1972, the AAODC became the International Association of Drilling Contractors.**
- In 2014 the logo was changed.**
- Today, IADC represents drilling contractors, oil and gas producing companies and manufacturing and service companies worldwide and is truly a multinational organization.**

## IADC Initiatives

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There have been dramatic changes in our industry over the past 5 years with the development of US unconventional (shale) oil and gas, and in responding to the Macondo incident. To deal with the underlying drivers of change, IADC operates in four specific ways:

- *By giving leadership in drilling's core functions and standards;*
- *By providing reliable stewardship of the industry's core values;*
- *By influencing political thinking to inform sensible government policy making; and*
- *By advocating better regulation to secure more constructive oversight by regulators.*

# IADC Initiatives

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As the leading body in the drilling sector, IADC conducts itself with integrity and supports the industry at all levels through its operational programs and through its advocacy. The Association works closely with all key organizations to magnify impact and increase leverage – for example with API, IOGP and IRF. The key distinction of IADC, worth repeating, is that IADC is wholly of the drilling industry and whomsoever that encompasses; *no other organization possesses that character and the obligations that stem from it.*

The objectives that drive IADC's advocacy, strategy and programs are:

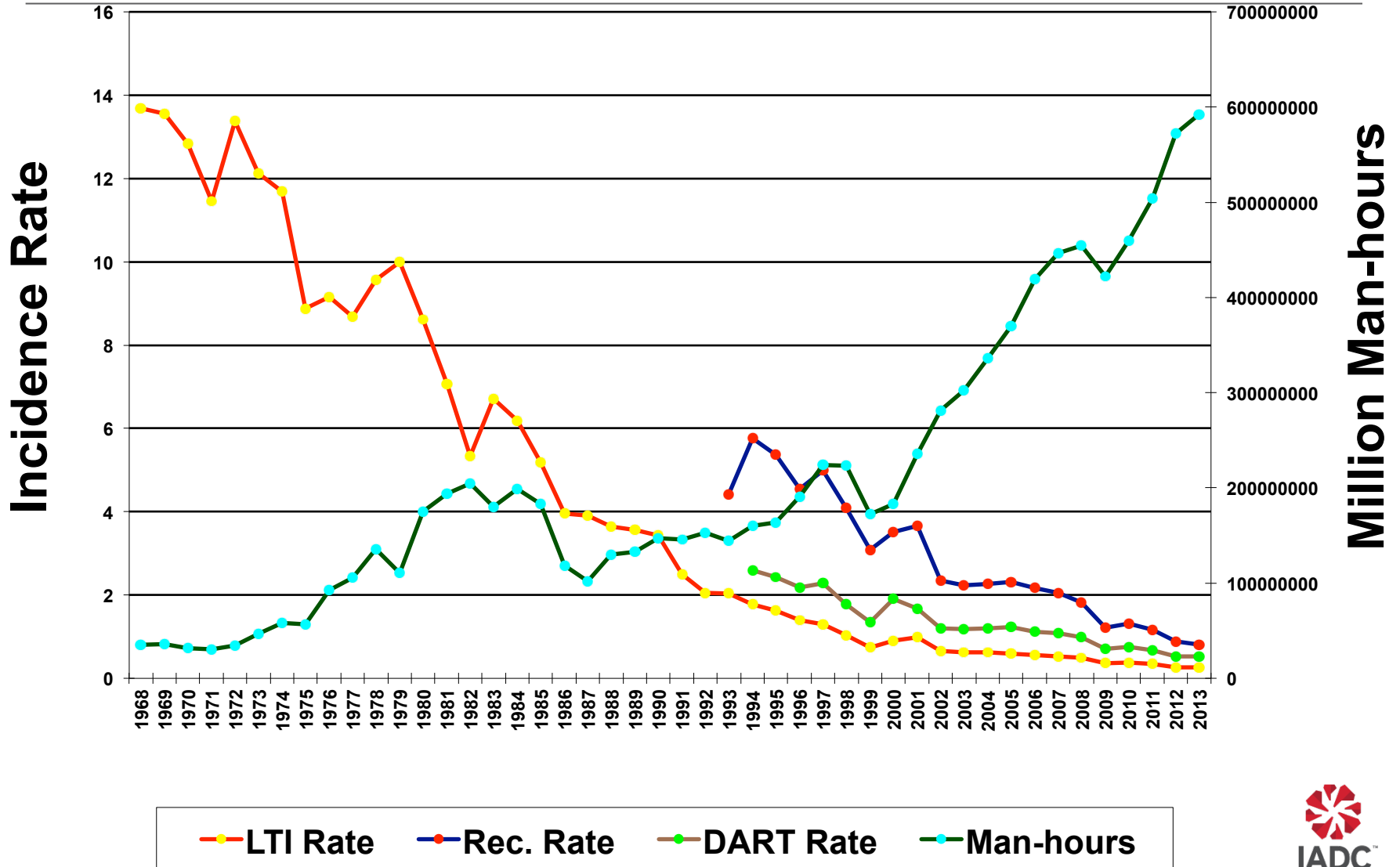
- *Fitness to Operate*
- *Drilling as a High Reliability Industry*
- *Drilling Without Frontiers*

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Nothing is more important than ensuring the safety of our people.

.....Closely followed by our commitment to environmental stewardship

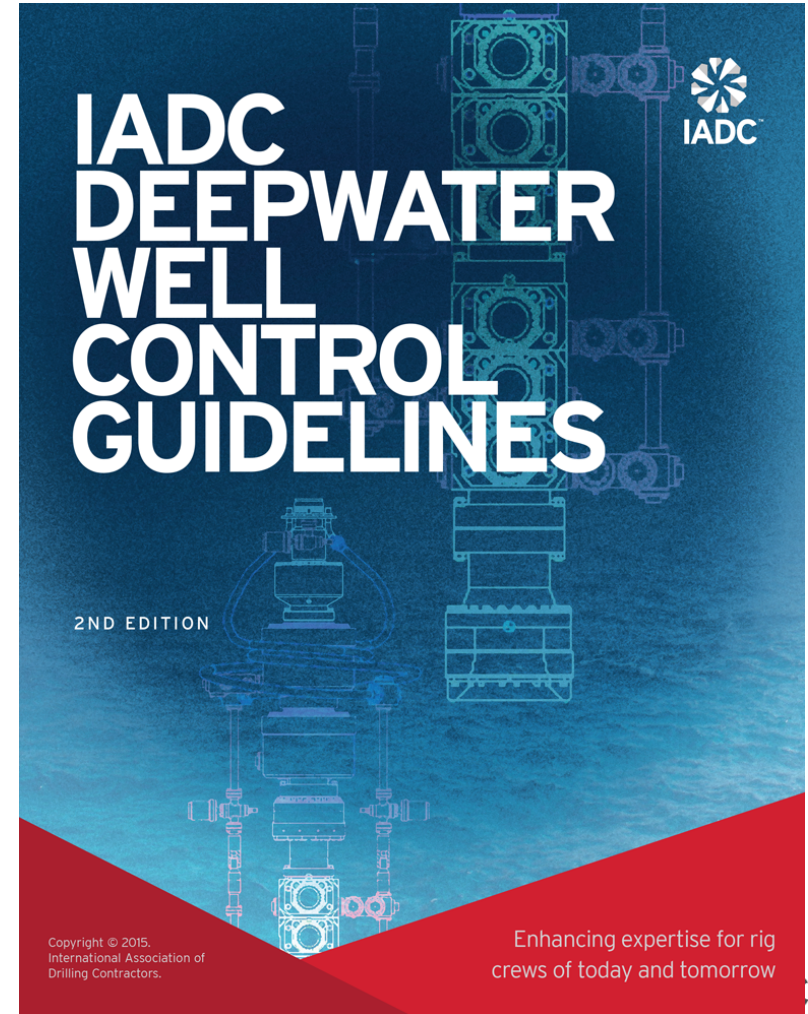
# Industry LTI Rates: 1968-2013



# IADC Deepwater Well Control Guidelines

## IADC Drilling Manual

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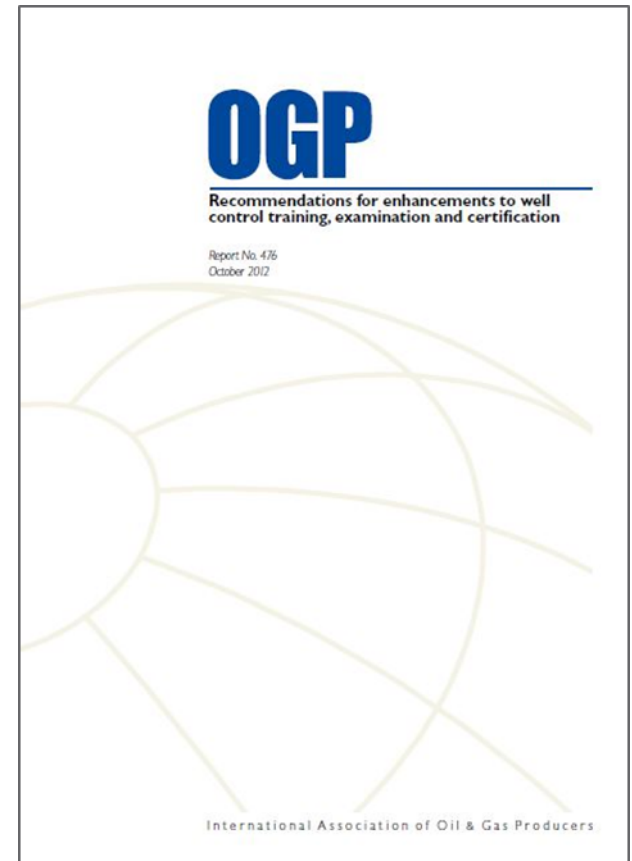


WellSharp™

# Why the Change

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- Industry stakeholders saw a clear need for:
  - Improved technical knowledge and skill
  - Improved and consistent human behaviors
  - Improved process integrity
- Respond to OGP 476



# Response

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## Industry demanded more effective training

- Courses focused on what employees need to know
- Develop training for all employees with well control responsibilities
- Improve the integrity of the knowledge assessment
  - Implement independent proctoring
- Increase focus on auditing
  - Eliminate certificate mills

# Changes to the Standard

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## New Training Courses

WellCAP	<b>Becomes</b>	WellSharp
X		Awareness
Introductory		Introductory
Fundamental		Driller
Supervisor		Supervisor
X		Engineer

# Changes to the Standard

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## Course Requirements

<b>Course</b>	<b>Recommended / Required</b>
Awareness	Recommended
Introductory	Recommended
Driller	Required
Supervisor	Required
Engineer	Required

# Changes to the Standard

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## Course Length & Recertification

Course	Length	Recertification
Awareness	4 hrs	None
Introductory	16 hrs	5 years
Driller-Surface	24hrs	2 years
Driller-Subsea	24hrs	2 years
Driller-Combined	29 hrs	2 years

# Changes to the Standard

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## Course Length & Recertification

Course	Length	Recertification
Supervisor-Surface	24 hrs	2 years
Supervisor-Subsea	24 hrs	2 years
Supervisor-Combined	29hrs	2 years
Engineer-Surface	24 hrs	5 years
Engineer-Subsea	24hrs	5 years
Engineer-Combined	29 hrs	5 years

# Changes to the Standard

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- Training designed for specific job and well control responsibilities
  - Drillers attend Driller course
    - Can take Supervisor course after Driller course is passed
  - Supervisors attend Supervisor course
- **Driller and Supervisor courses taught separately**



# Changes to the Standard

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- Electronic knowledge testing system
  - Online testing
  - Offline e-testing
  - Centralized and controlled question database
  - Questions randomized and answers shuffled
  - Pass/fail safety-critical questions
  - Surveys
  - Metrics

# What's Next?

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- Develop WellSharp curricula for:
  - Engineering course
  - Workover and Completion
  - Coiled tubing
  - Snubbing
  - Wireline, etc.
- Human Factors 'In progress'
- Continuous learning

# The Game Changer

(Centralized Electronic Testing)

# WellSharp Test Database Administrator Access & Features



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**Remaining IADC Test Codes**

**150** Awareness Codes  
0 Scheduled Tests

**149** Introductory Codes  
2 Scheduled Tests

**191** Drilling/Supervisor Codes  
34 Scheduled Tests

[View/Purchase Test Codes](#)

[+ Schedule a Class](#)



Ongoing Classes

Show 10 entries

Class Title	Class Location	Dates	Instructor	Language
Aug 6 Retake	test location - American Samoa	August 3 - 7	Brooke Polk	English
Drilling-UMW	Houston, Texas - United States	August 3 - 7	Gerardo Barrera	English

Search:



# WellSharp Test Database Administrator Access & Features

## Class Management

Class Details

Manage Roster

Class ID: 4D20404D  
Class Title or ID: Aug 6 Retake  
Class Status:  Scheduled - Not Started [Class Preview](#)  
Class Dates: August 3 - 7  
Exam Date/ Time: August 7, 2015 1:00 PM  
Course Level: Drilling Operations Supervisor  
Available Stack Types: Both Stacks, Surface Stack, Subsea Stack  
Supplement Offered: Workover Offered  
Instructor: Brooke Polk  
Language: English  
# Simulators: 2

### Class Location

\*Location Name: Test location  
\*Street Address: 123 west street  
\*Country: American Samoa  
\*City & State: test location

[Modify Class Details](#)

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## Class Management

Class Details

Manage Roster

Registered for Class:

[Add Trainee](#)

[Add Retake](#)

[Import](#)

[Export Roster](#)

[Course Options](#)

Search:

Name	Email	City	Country
Ann Smith	test@aol.com	-	-
John Smith <small>Retake</small>	john.smith@iadc.org	-	-



# WellSharp Test Database Instructor Access & Features

## Class Dashboard



Class Details

Scores & Reports

Name	Skills Score	Knowledge Exam	Workover Exam	Certificate
Smith, Ann	80	Not Started	n/a	-
Smith, John	84	<a href="#">Score Report</a>	Not Started	-

Export Class Results



# WellSharp Test Database Student Feedback



 Print/ Save

## Knowledge Assessment Report

<b>Assessment:</b>	Drilling Operations, Supervisor, Surface/Subsea
<b>Stack:</b>	Both Stacks
<b>Assessment Date:</b>	May 17, 2015 2:27 PM
<b>Score:</b>	83%

### Instructions

Thank you for completing the IADC Well Control Knowledge Assessment for the course. You scored 83 percent on this knowledge assessment and, therefore, passed the course. You will be given your Certificate of Completion by your instructor, who will also review your missed questions with you.

After your instructor reviews your exam results with you, you may choose to return to your computer to review each test question you missed on today's exam. To launch the review feature, log in using the same code you used at the beginning of the exam.

Once you complete your review and you have received your Certificate, you are to log out of the testing system and may leave the testing center.

Your company will be notified of your test results and be sent a copy of your Certificate of Completion

### Topics for Review

**Kick Prevention during Drilling, Casing, & Cementing Operations:** Ballooning, Riser Margin

**Pre-Recorded Data:** Slow Circulating Rates

**Well Control Methods:** Stripping

### Missed Questions

- **What information from the well can help you to decide if the well is ballooning?**

wc3ezf

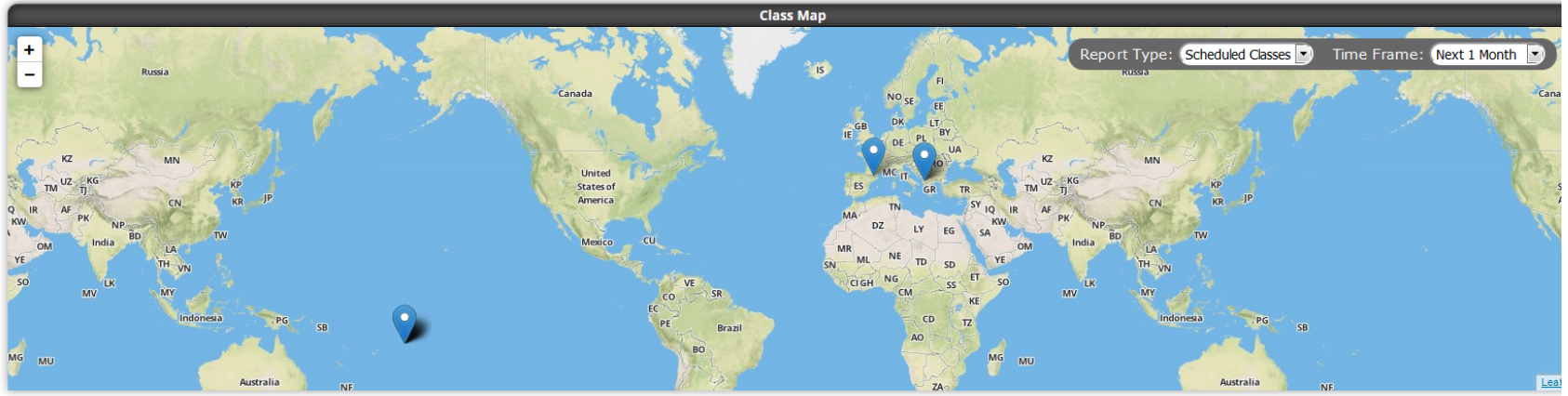


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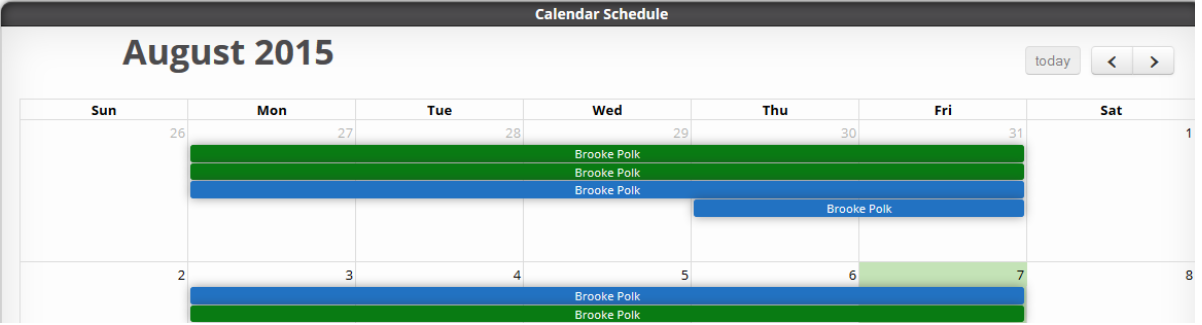
Brooke Polk Sign

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**Ongoing/ Upcoming Classes**

Test Status	Course Dates	Location
● Test Open and Active	June 21 - 25	test, AS
● Test Not Started	June 21 - 25	sdfsdf, AL
● Test Open and Active	June 21 - 25	test, AD
● Test Open and Active	July 26 - 30	test city, AS
● Test Open and Active	July 26 - 30	test location, AS
● Test Not Started	July 26 - 30	dfgdfg, AL
● Test Not Started	July 29 - 30	test, AS





# WellSharp Test Database Instructor Access



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**Search Options**

Class Title or ID: <input type="text"/>	Course Taught: <input type="text" value="All Courses"/>
Date Filter: <input type="text" value="Start Date"/> to <input type="text" value="End Date"/>	Instructor: <input type="text" value="All Instructors"/>
City: <input type="text"/>	Provider: <input type="text" value="All Providers"/>
Country: <input type="text" value="All Countries"/>	Class Language: <input type="text" value="English"/>
State: <input type="text" value="All States"/>	

Show  entries

Title	Class Status	Provider	Instructor	Location	Course	Course Dates	Registrants
Driller	● Exam Active	IADC Inc	Gerardo Barrera	Houston, Texas - United States	Drilling Operations Driller	April 6 - 10	1
driller	● Exam Active	IADC Inc	Gerardo Barrera	dsfsdf - Åland Islands	Drilling Operations Driller	April 8 - 30	1
driller	● Exam Active	IADC Inc	Gerardo Barrera	test - Anguilla	Drilling Operations Driller	April 9 - 30	4
driller	● Exam Active	IADC Inc	Gerardo Barrera	test - Andorra	Drilling Operations Driller	April 9 - 30	4
driller	● Exam Active	IADC Inc	Gerardo Barrera	werwerwer	Drilling Operations Driller	April 8 - 30	2
driller	● Exam Active	IADC Inc	Gerardo Barrera	test - Algeria	Drilling Operations Driller	April 9 - 30	4
Driller Workover	● Exam Active	IADC Inc	Gerardo Barrera	test - Antarctica	Drilling Operations Driller	April 14 - 30	4
Drilling Houston, TX	● Exam Active	IADC Inc	Gerardo Barrera	Houston, Texas - United States	Drilling Operations Driller	April 13 - 15	4
exxon	● Scheduled	IADC Inc	Gerardo Barrera	test - Albania	Drilling Operations Driller	April 14 - 29	12
intro 1	● Exam Active	IADC Inc	Gerardo Barrera	test - Albania	Drilling Operations Introductory	April 9 - 30	4
Introductory	● Class Ended	IADC Inc	Gerardo Barrera	houston, Texas - United States	Drilling Operations Introductory	April 8 - 30	4
sdfsdf	● Exam Active	IADC Inc	Gerardo Barrera	sdfsdf - Albania	Drilling Operations Supervisor	April 8 - 30	1
supervisor	● Exam Active	IADC Inc	Gerardo Barrera	test - Åland Islands	Drilling Operations Supervisor	April 9 - 30	4
supervisor	● Exam Active	IADC Inc	Gerardo Barrera	test - Andorra	Drilling Operations Supervisor	April 9 - 30	4
supervisor	● Exam Active	IADC Inc	Gerardo Barrera	test - Algeria	Drilling Operations Supervisor	April 9 - 30	4
supervisor workover	● Exam Active	IADC Inc	Gerardo Barrera	test - Antarctica	Drilling Operations Supervisor	April 14 - 30	4
Supervisory	● Exam Active	IADC Inc	Gerardo Barrera	Malaga - Spain	Drilling Operations Supervisor	April 27 - May 1	2
WellCAP Fund April 2015	● Scheduled	IADC Inc	Gerardo Barrera	Cypress, Texas - United States	Drilling Operations Awareness	April 14 - 30	15



# WellSharp Test Database Instructor Access



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**Search Options**

Name:      Provider:

Date of Birth:      Instructor:

Email:     Course Level:

Country:     Date Filter:  to

State:

Show  entries Search:

Name	Date Issued	Provider	Instructor	Course	Course Dates	Email	Options
malcolm, lodge	April 14, 2015 7:11 AM	IADC Inc	Gerardo Barrera	Drilling Operations, Introductory	April 9 - 30	test@test.com	Select an Action
Malcolm, Lodge	April 8, 2015 10:39 AM	IADC Inc	Gerardo Barrera	Drilling Operations, Introductory	April 8 - 30	malcolmlodge51@gmail.com	Select an Action
Malcolm, Lodge2	April 8, 2015 10:54 AM	IADC Inc	Gerardo Barrera	Drilling Operations, Introductory	April 8 - 30	malcolmlodge51@gmail.com	Select an Action
malcolm, lodge2	April 14, 2015 7:36 AM	IADC Inc	Gerardo Barrera	Drilling Operations, Introductory	April 9 - 30	test@test.com	Select an Action
malcolm, lodge2	April 14, 2015 4:08 PM	IADC Inc	Gerardo Barrera	Drilling Operations, Introductory	April 9 - 30	test@test.com	Select an Action

Showing 1 to 5 of 5 entries Previous  Next



# WellSharp Test Database Training Provider Analytics

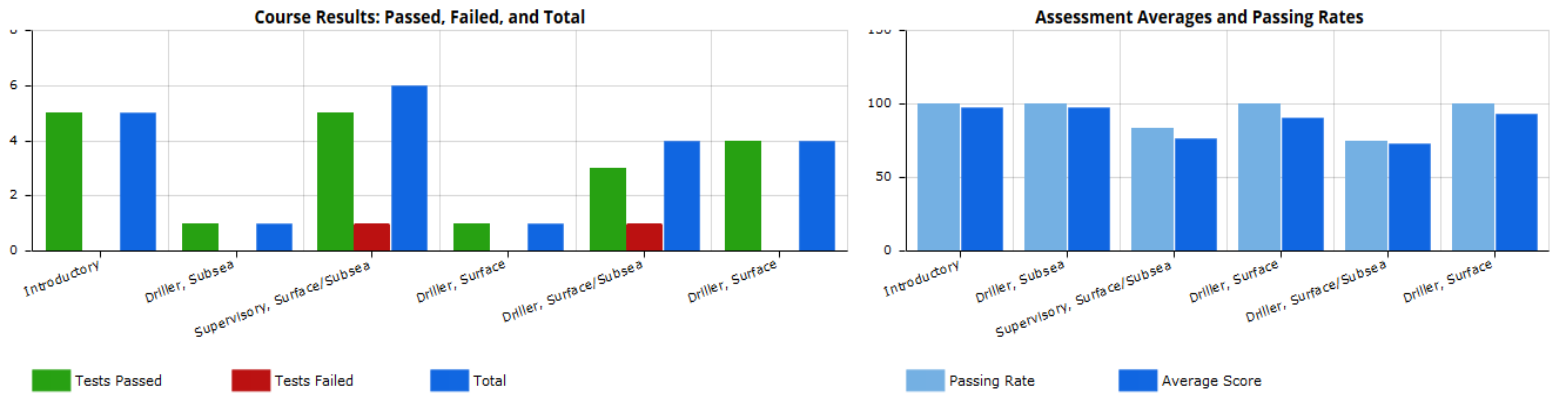


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Assessments **Classes**

## Assessment Comparison



Assessment	Trainees Assessed	# Passed	# Failed	Passing Rate	Average Score
Drilling Operations, Introductory	5	5	0	100%	97%
Drilling Operations, Driller, Subsea	1	1	0	100%	97%
Drilling Operations, Supervisory, Surface/Subsea	6	5	1	83.3%	76%
Drilling Operations, Driller, Surface	1	1	0	100%	90%
Drilling Operations, Driller, Surface/Subsea	4	3	1	75%	73%



# WellSharp Test Database

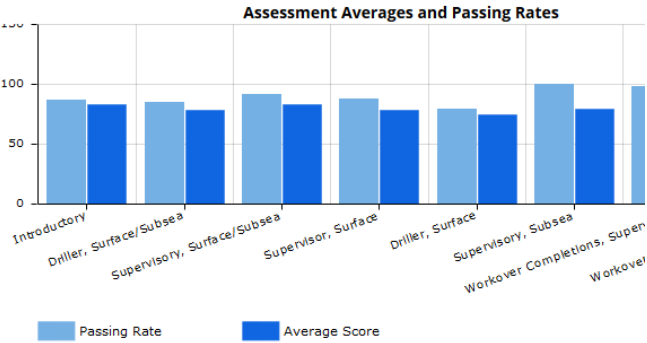
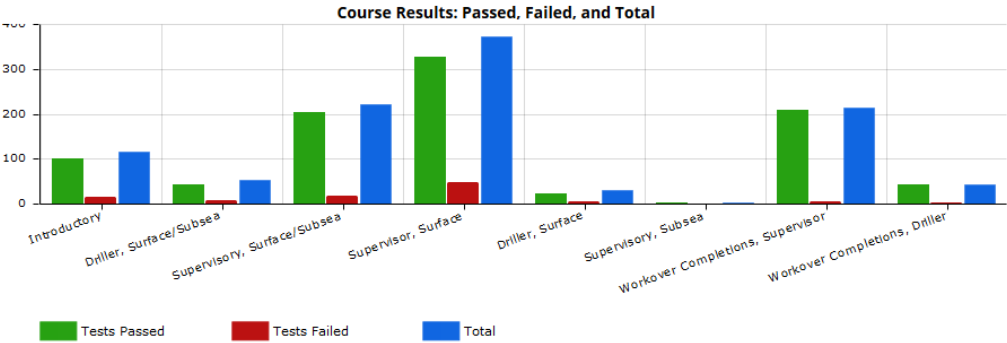
## IADC Analytics



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- Instructors
- Invoices
- Test Proctors
- Edit Assessments
- Red Flags
- Report

- Assessments**
- Training Providers
- Questions
- Curriculum
- Classes

### Assessment Comparison



Assessment	Trainees Assessed	# Passed	# Failed	Passing Rate	Average Score
Drilling Operations, Introductory	116	101	15	87.1%	83%
Drilling Operations, Driller, Surface/Subsea	52	44	8	84.6%	78%
Drilling Operations, Supervisory, Surface/Subsea	221	203	18	91.9%	83%
Drilling Operations, Supervisor, Surface	373	326	47	87.4%	78%
Drilling Operations, Driller, Surface	29	23	6	79.3%	75%
Drilling Operations, Supervisory, Subsea	2	2	0	100%	79%
Drilling Operations, Workover Completions, Supervisor	215	210	5	97.7%	88%
Drilling Operations, Workover Completions, Driller	44	42	2	95.5%	85%



# WellSharp Test Database

## IADC Analytics



Brooke Polk

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- Curriculum
- Classes

**Search Options**

Assessment:  Curriculum:

Question Bucket:  Module:

Competency Category:  Submodule:

Blooms Level:

Difficulty Percentile:

- Question Listing**
- Question Metrics

Show  entries Search:

ID	Question	Correct Answer	Times Asked	% Correct	Most Answ				
QEeBI	Your well has overbalanced fluid (approximately 200 psi) in the work string and annulus side. The next step is to unseat a packer and pull out of the hole. After unseating the packer, why would you want to wait up to 30 minutes before pulling out of the hole?	To give the packer time to relax and increase your clearance in the annulus, reducing the swab effect on the bottom of the hole	57	96%	To give the packer relax and increase clearance in the ar reducing the swab the bottom of the				
aDahE	Your rig has just successfully completed a kill operation on a floating rig. Before sweeping the stack the following information was gathered. <table border="1" style="width: 100%;"> <tr> <td>Shut In Casing Pressure - 0 psi</td> <td>BOP depth - 2565 TVD</td> </tr> <tr> <td>Mud Weight in Choke line - 12 ppg</td> <td>Mud Weight in Kill line - 11.3</td> </tr> </table>	Shut In Casing Pressure - 0 psi	BOP depth - 2565 TVD	Mud Weight in Choke line - 12 ppg	Mud Weight in Kill line - 11.3	93psi	69	94%	93psi(94%)
Shut In Casing Pressure - 0 psi	BOP depth - 2565 TVD								
Mud Weight in Choke line - 12 ppg	Mud Weight in Kill line - 11.3								
Yfwa8	What is the U-tube differential pressure?								
2pQGE	Your current Mud Weight is 11.5 ppg. You were instructed to pump a 35 bbl slug weighing 13.5 ppg. Your Drill Pipe capacity is 0.0178 bbls/foot. What is the total volume returned to surface?	41 bbl	53	77%	41 bbl(77%)				
	Your current Mud Weight (MW) is 11.5 ppg. You were instructed to pump a 35 bbl slug weighing 13.5 ppg. Your Drill Pipe capacity is 0.0178 bbls/ft. How many feet of dry pipe will you have after pumping?	342 feet	62	77%	342 feet(77%)				
S1TU7	Your crew is pulling a 64 foot long non-shearable assembly out of the hole on a floating rig. The well starts flowing. The tool is currently across the BOP and the Driller has shut the well in on the Annular. Will this affect your risk assessment on how you proceed after shut-in?	Yes, the tool won't allow use of the shear/blind ram, so you may need to strip-in to position a shearable tubular	72	96%	Yes, the tool won't of the shear/blind you may need to s position a shearab				



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Question Buckets
Assessments
Curriculums
Master Listing

Que

Q d

Question Bucket ↕	Bucket Code ▼	Question
• Overview & Terminology	D1-1	D1-1 What is the correct definition of Porosity?
• Terminology, Pressure, importance of vol calcs	D3-2	D1-1 What is the correct definition of Permeability?
• PSI/MW/psi/ft calcs	D4-4	D1-1 What is the fluid pressure within the pore spaces of the rock k
• U-Tube	D5-2	D1-1 What can cause a larger kick size and a greater Shut In Casing
		D1-1 What is the percentage of void space in a formation?
		D1-1 What term means "an undesired influx of formation fluids into
		D1-1 What term means "an uncontrolled flow of formation fluids"?
		D1-1 What is the term used to describe the highest pressure that co
		D1-1 Which of the following best describes fracture pressure?
		D1-1 What is defined by "the force acting on an area"?
		D1-1 Hydrostatic Pressure is:
		D3-2 When you shut-in a well, what can affect the time taken for SIT
		D3-2 stabilize?
		D3-2 When you shut in a well after a kick, it can take 5-10 minutes o



# WellSharp Test Database IADC Access

**WellSharp** https://iadc.wellsharp.org/iadcAnalyticsProvider Search Mark Denkowski

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Assessments | **Questions**

Show 10 entries

Which of the following would not increase the risk of surging?

55 bbls of mud was lost while drilling the last stand down formation fluids being bled back into the well. It is decided to bleed back 10 bbls of mud.

A 5 bbl gas bubble at 800 psi is allowed to expand to 8 bbl.

A 500-foot long cement plug is set up inside the casing shoe. New mud weight = 12.8 ppg  
Top of cement plug = 8200feet

If the plug failed and allowed pressure to pass between the casing and the formation, what would be the pressure differential across the cement plug?

A 500-foot long cement plug is set up inside the casing shoe. Brine weight = 9.5 ppg  
Top of cement plug = 8200 feet

If the plug failed and allowed pressure to pass between the casing and the formation, what would be the pressure differential across the cement plug?

A 500-foot long cement plug is set up inside the casing shoe. Sea Water = 8.6 ppg  
Top of cement plug = 8200feet

What is the pressure differential across the cement plug?

A 500-foot long cement plug is set up inside the casing shoe. Formation pressure below the cement plug = 11.8 ppg equivalent mud weight  
Sea Water = 8.6 ppg  
Top of cement plug = 8200feet

**What is the pressure differential across the cement plug?**

Times Asked: 6  
Times Correct: 2(33.3%)  
AIM Level: Mastery  
Blooms Level: Analysis  
Module: 2.1 Well Control Concepts  
Submodule: Well Control Terminology and Formation Characteristics  
Learning: Identify common oilfield sedimentary rocks and describe potential flow characteristics (for example, sandstone, carbonates, shale/claystone, and salt; porosity, permeability, formation strength).  
Objective:

0% 1364 psi  
**33.3% 1671 psi**  
66.7% 1447 psi  
0% 1407 psi

Correct  
Incorrect

1671 psi: 33%  
1447 psi: 67%

● 1364 psi ● 1671 psi ● 1447 psi ● 1407 psi

Correct Answer	Times Asked	% Correct	Most Answered
Lower Casing grade	8	100%	Lower Casing grade (100%)
As you bleed more mud back there may be some formation fluid bled back into the well	7	43%	As you bleed more mud back there may be some formation fluid bled back into the well(43%)
500 psi	3	100%	500 psi(100%)
BHP would increase	3	67%	BHP would increase(67%)
BHP would decrease	8	25%	BHP would increase(38%)
1671 psi	6	33%	1447 psi(67%)
1535 psi	8	88%	1535 psi(88%)

Note the increase in Drill



# WellSharp Test Database

## IADC Access



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**Calendar Filters**

All Providers

All Instructors

All Courses

Scheduled Classes						
April 2015						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
				Calvin Pedigo PetroEd Instructor3		
5	6	7	8	9	10	11
		Calvin Pedigo PetroEd Instructor3				
	PetroEd Instructor3			Gerardo Barrera		
	ELearning Instr ELearning Instr			George Edwards		
	PetroEd Instructor1			Calvin Pedigo Calvin Pedigo		
				Gerardo Barrera Joshua Loveland		
				Bruce Barnes Terry Triche		Tom Elliott
		Chad Lyon				Gerardo Barrera
	Brian David Maness Joshua Loveland				Gerardo Barrera Gerardo Barrera	
	Joshua Loveland				Gerardo Barrera	
	PetroEd Instructor3				Johnny Mack Burrell	
	PetroEd Instructor3				Kariton Land	
	Terry Triche				Tom Elliott	
	ELearning Instr			Fernando A Borgert Fernando A Borgert		
				Frank Klepper		
				George Edwards		
				James Vertner		
				Kariton Land		
				ELearning Instr Eric David Wright		
				Donald Blackwell Sr.		Gerardo Barrera
				ELearning Instr		Gerardo Barrera
				Michael Williams Michael Williams		
				PetroEd Instructor3		
				Phillip Friedemann Holmes		
				Brian David Maness		
				Brian David Maness		
				ELearning Instr		
				Joshua Loveland		
						Gerardo Barrera
						Gerardo Barrera





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Training Provider Activity

Provider	Instructors	Classes	Total Trained	Total # Passed
Diamond Offshore Drilling, Inc.	8	26	20	15
ExxonMobil	6	3	1	0
IADC	0	0	0	0
IADC Inc	2	20	21	19
PetroEd Inc	4	13	16	9
Petroleum College International	7	16	20	14
Rig QA International Inc	4	6	4	2
Seventy Seven Energy	6	4	16	13
Wild Well	45	16	5	1

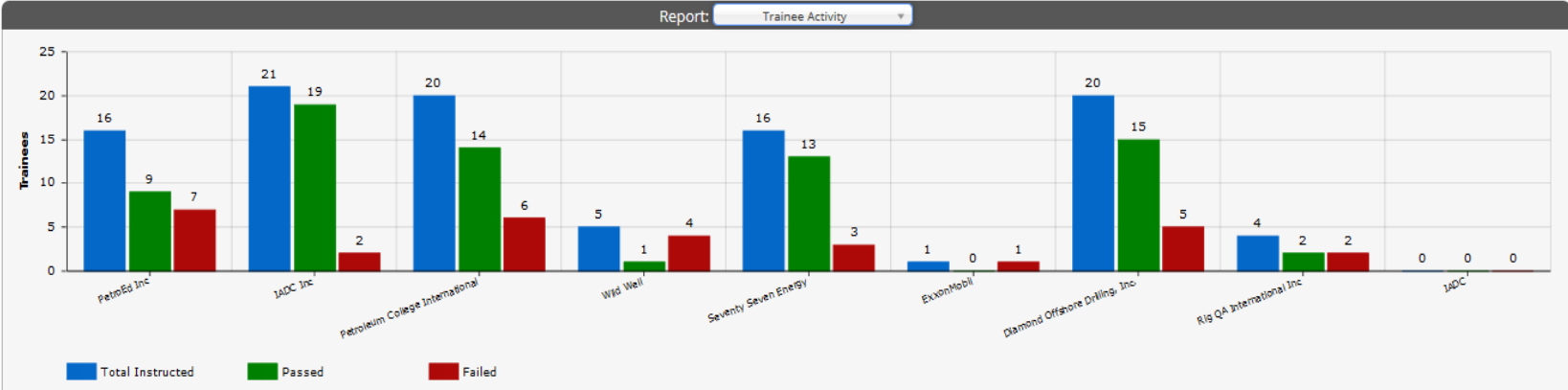
Previous 1 Next

Training Provider Performance

Provider	Passing Rate	Average Score
Diamond Offshore Drilling, Inc.	75	75.5
ExxonMobil	0	25.6
IADC	0	0
IADC Inc	90.5	85.5
PetroEd Inc	56.3	66
Petroleum College International	70	76.3
Rig QA International Inc	50	67.6
Seventy Seven Energy	81.3	76.1
Wild Well	20	23.6

Previous 1 Next

Training Provider Comparison



# From Testing to Learning

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- IADC has ability to monitor every test around the world
- Provides barometer of success to providers, instructors, and students
- Easy identification of areas of improvement
- Real-time feedback from student surveys
- Student feedback for gap closure

# WellSharp Summary

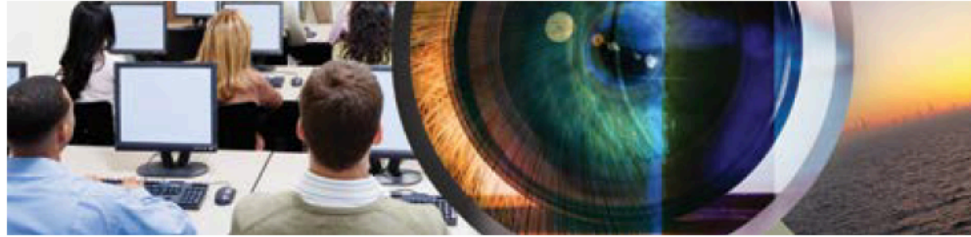
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- Focus on training for all personnel involved with Well Control; ensuring training is commensurate with role & responsibilities.
- Expanded course levels in line with OGP 476 recommendation to tailor training to requirements of specific roles & responsibilities.
- Centralized electronic testing and grading to ensure integrity and international uniformity.
- Immediate test results with missed question learning objective guidance provided to Instructors for each student.
- Improved instructor qualifications.
- Continuous training to maintain currency and reduce skill fade.

# WellSharp Summary

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- Developed by the industry for the industry.
- Designed to address the criticisms of existing well control training programmes.
- Ability of industry to argue its case globally and effectively in twenty first century will depend on its reputational strength which, in turn, depends on operational excellence.
- WellSharp will make an important contribution to operational excellence and is a key component of the IADC's wider strategic plan to catalyze improved performance.



## IADC WELLSHARP™ FORUM

13 November 2015

10:00am - 12:00pm

Saxon Training Facility

Perth, Australia

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IADC's mission is to catalyse improved performance for the drilling industry. We provide the space for stakeholders to come together, share knowledge, tackle common problems and develop solutions to the industry's critical challenges.

The new WellSharp™ well control training and assessment program is the latest example of those solutions.

The program - created by a collaborative industry effort and owned by IADC member companies - is the industry's response to the need for improved well control performance.

We invite you to visit [www.iadc.org/Perth](http://www.iadc.org/Perth) to access more information on the topics discussed in today's forum, including brochures, media articles, videos, and a copy of the presentation.

Thank you for the opportunity to discuss the WellSharp program with you. We hope this forum provides you with useful information regarding the development of the program, transition process, and details about the enhancements that we believe will ultimately contribute to **improved performance in the drilling industry.**

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[www.iadc.org/Perth](http://www.iadc.org/Perth)

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Thank you

