



The Value Added by Well Control Training Metrics, Related Requirements, and Integration of Human Factors

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Eager

Persistent
Learner



Fearless

Unaware



November 29-30, 2016

Enhanced Instructor Requirements

- Instructor knowledge exams with 85% passing rate
- Train-the-Train requirement



From Testing to Learning

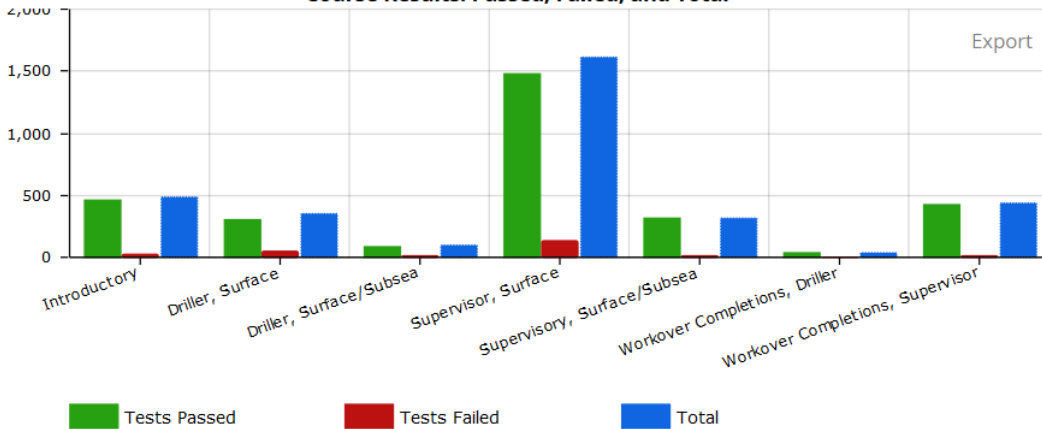
- Monitoring every test around the world
- Providing barometer of success to providers, instructors, and students
- Easily identifying areas of improvement
- Providing real-time feedback from student surveys
- Providing student feedback for gap closure
- Allowing review of questions



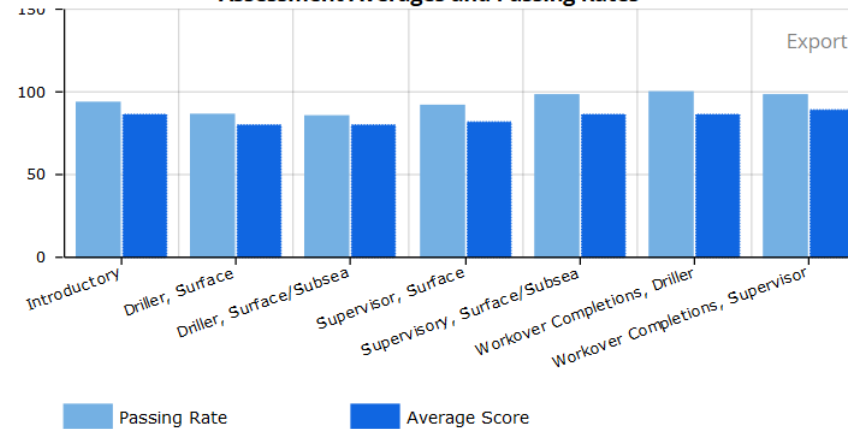
Assessment Analytics

Assessment Comparison

Course Results: Passed, Failed, and Total



Assessment Averages and Passing Rates



Assessment	Trainees Assessed	# Passed	# Failed	Passing Rate	Average Score
Drilling Operations, Introductory	484	455	29	94%	86%
Drilling Operations, Driller, Surface	353	305	48	86.4%	80%
Drilling Operations, Driller, Surface/Subsea	100	85	15	85%	80%
Drilling Operations, Supervisor, Surface	1,612	1,478	134	91.7%	82%
Drilling Operations, Supervisory, Surface/Subsea	318	311	7	97.8%	86%
Drilling Operations, Workover Completions, Driller	42	42	0	100%	86%
Drilling Operations, Workover Completions, Supervisor	432	423	9	97.9%	89%
Totals:	3,341	3,099	242	92.8%	84%



Feedback for Gap Closure



Print/ Save

Knowledge Assessment Report

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



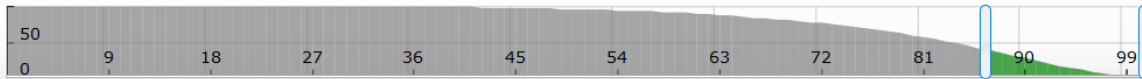
From Testing to Learning

- Communicating to industry providers areas of strength and those needing improvement
- Monitoring of areas needing improvement
- Communicating observations from surveys
- Allowing revision of questions through industry workgroup
- Providing revisions in real time
- Instructor training that focuses on the learner and strategies for improving learning and retention



Question Analytics

Difficulty Percentile:
Between 86% and 100%



[Question Listing](#)

[Question Metrics](#)

Show entries

Search:

ID	Question	Correct Answer	Times Asked	% Correct	Submodule
j2HHI	When on a surface stack, when is the Volumetric Method complete?	When casing pressure stops increasing	666	20%	Volumetric Method
HQJSB	During a well kill on a subsea operation, the pump rate is decreased while holding the casing pressure constant. If you ignore any ECD effects, how will the pump rate decrease affect Bottom Hole Pressure (BHP)?	BHP will decrease	1	0%	Handling Kill Problems and Effect of Incorrect Procedures
4tGzx	<p>A shut-in well is about to be killed with a floating rig. Choke line friction is high. Using the information below, what will the drill pipe pressure be after the pump start up procedure?</p> <p>Well Information:</p> <ul style="list-style-type: none"> SIDPP = 180 psi SICP = 210 psi SCR at 30 SPM = 240 psi Choke Line Friction = 410 psi 	620 psi	150	25%	Pump Startup and Shutdown Procedure



Raising the Bar in Well Control

- Human Factors incorporation into well control
- Meeting the needs of more experienced rig workers

WellCAP Plus

Enhanced Well Control

- Continuous learning for enhanced retention



Determination



November 29-30, 2016

The logo for the Oil & Gas Safety and Health Conference 2016, organized by OSHA. It features a stylized orange oil drop and blue flame on the left. The text 'Oil & Gas' is in orange and blue, 'Safety and Health' is in black, 'CONFERENCE' is in grey, '2016' is in grey, and 'OSHA' is in black with a blue circular icon. Below this, 'Exploration & Production' is written in large black font.

Oil & Gas
Safety and Health
CONFERENCE
2016 **OSHA**[®]
Exploration & Production

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