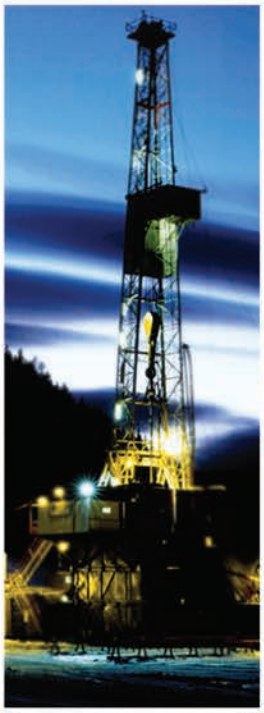

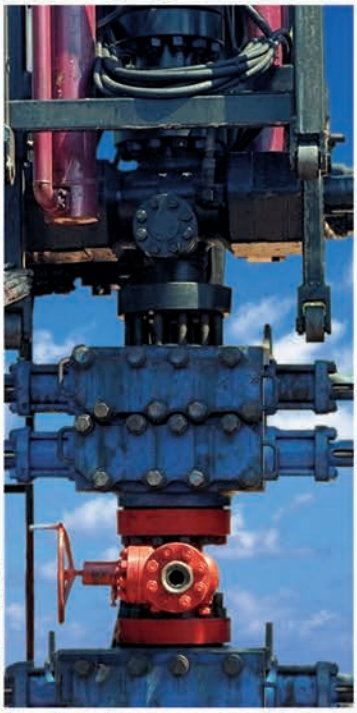

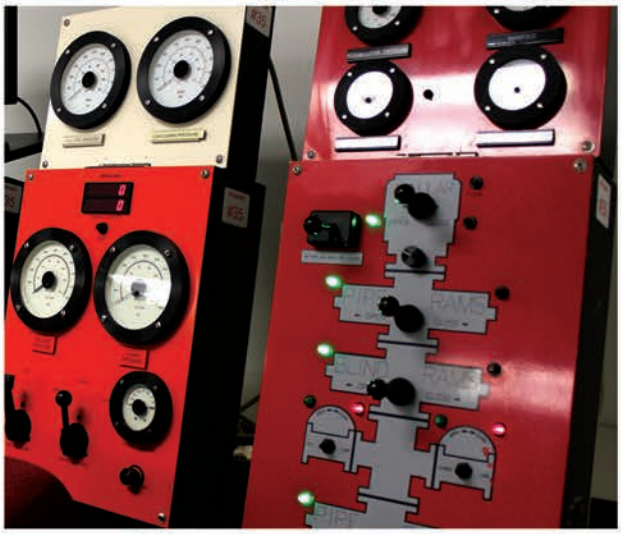

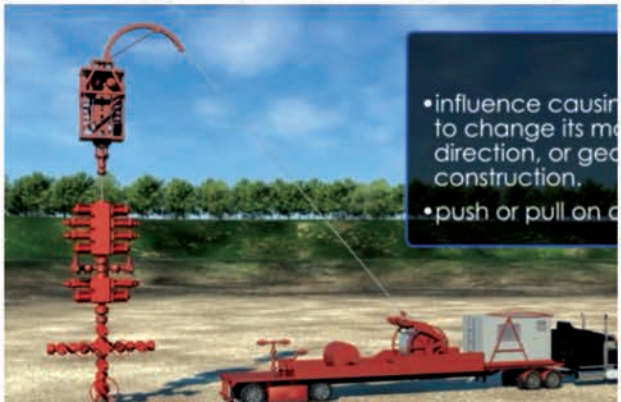

WCS
WELL CONTROL SCHOOL

COMMITTED TO QUALITY...
DELIVERING VALUE!®

ABOUT US

Well Control School (WCS) is a leading provider of accredited well control training. Since our inception in 1979, we have trained over 85,000 students globally through our training centers and proprietary System 21 e-Learning program. Our approach to ensuring positive student engagement is to deliver the latest standards and methodologies using expert knowledge, case studies and realistic, hands-on simulations to help adult learners navigate everyday oilfield situations successfully.

Since our founding, we have been at the forefront of developing well control standards in support of competency-based training and enhanced personnel safety. Our organization collaborated with the United States Minerals Management Systems (now BOEM and BSEE) to develop the well control training section of the standard known currently as "Subpart O". As a result, we launched the **Well Control School Accreditation Program**, a curriculum-based training standard that provides oil and gas training for drilling, well control and well servicing operations, and complies with IOGP 476 standards and US Bureau of Safety and Environmental Enforcement (BSEE) Subpart O (30 CFR Part 250.1504). For more information, visit www.wellcontrol.com.

ACCREDITATIONS AND ASSOCIATION MEMBERSHIPS

- The Well Control School Accreditation
- International Standard ISO 9001 (ISO)
- International Well Control Forum (IWCF)
- International Coiled Tubing Association (ICoTA)
- International Association of Drilling Contractors (IADC)
- Society of Petroleum Engineers (SPE)
- Association of Energy Services Companies (AESC)

REGISTRATION

Instructor-led and System 21 e-learning courses are offered at three training centers in Houston, Texas; Lafayette, Louisiana and Laurel, Mississippi.

For instructor-led and computer-based courses:

Web: www.wellcontrol.com

Phone: 1.713.849.7400

e-Mail: enrollments@wellcontrol.com

Instructor-led classes begin at 7:00 a.m.

For System 21 e-Learning web-based courses:

Web: www.wcsonlineuniversity.com

e-Mail: e-learning@wellcontrol.com

Phone: 1.877.575.8311 (tech support)

LOCATIONS

Texas

16770 Imperial Valley Drive, Suite 290
Houston, Texas 77060

Louisiana

425 Settlers Trace Boulevard
Lafayette, Louisiana 70508

Mississippi

1618 Old Amy Road
Laurel, Mississippi 39440

INSTRUCTOR - *Led* COURSES

WCS Certified and IADC WellSharp™ Courses	Days	CEU
Supervisor Level		
• Drilling Surface	3.5	2.4
• Drilling, Combined Surface/Subsea	3.5	2.9
• Drilling, Workover-Completion Surface	5	3.2
• Drilling, Workover-Completion, Combined Surface/Subsea	5	3.9
• IADC Re-test Option	0.5	N/A
Driller Level		
• Drilling Surface	3.5	2.4
• Drilling, Combined Surface/Subsea	3.5	2.9
• Drilling, Workover-Completion Surface	5	3.2
• Drilling, Workover-Completion, Combined Surface/Subsea	5	3.9
• IADC Re-test Option	0.5	N/A
WCS Certified and IADC WellCAP® Courses		
Supervisor Level		
• Coiled Tubing Surface	4.5	3.7
• Snubbing Surface	4.5	3.7
• Workover-Completion, Coiled Tubing, Snubbing, Wireline Surface	5	3.9
Fundamental Level		
• Workover-Completion, Coiled Tubing, Snubbing, Wireline Surface	5	3.9
WCS Certified and IWCF Courses		
Level 4		
• Drilling Surface	5	3.6
• Drilling, Combined Surface/Subsea	5	3.6
• Re-test Option	0.5	N/A
Level 3		
• Drilling Surface	5	3.6
• Drilling, Combined Surface/Subsea	5	3.6
• Re-test Option	0.5	N/A

System 21 *e*-LEARNING COURSES

WCS Certified and IADC WellSharp™ Courses	Days	CEU
Introductory Level		
• Drilling Operations ***NEW***	2-3	2.0
WCS Certified and IADC WellCAP® Courses		
Supervisor Level		
• Coiled Tubing Surface	5-6	3.7
• Snubbing Surface	2-3	2.1
• Snubbing, Wireline Surface	3-4	2.6
• Wireline Surface	2-3	1.6
• Workover-Completion Surface	2-3	2.0
• Workover-Completion, Coiled Tubing Surface	3-4	2.8
• Workover-Completion, Snubbing Surface	3-4	2.8
• Workover-Completion, Coiled Tubing, Snubbing, Wireline Surface	4-5	3.9
• Workover-Completion, Coiled Tubing, Snubbing Surface	3-4	3.3
• Workover-Completion, Snubbing, Wireline Surface	3-4	3.3
• Workover-Completion, Wireline Surface	3-4	2.8
• Workover-Completion, Wireline, Coiled Tubing Surface	3-4	3.3
Fundamental Level		
• Snubbing Surface	2-3	2.1
• Snubbing, Wireline Surface	3-4	2.6
• Wireline Surface	2-3	1.6
• Workover-Completion Surface	2-3	2.0
• Workover-Completion, Coiled Tubing Surface	3-4	2.8
• Workover-Completion, Coiled Tubing, Snubbing Surface	3-4	3.3
• Workover-Completion, Coiled Tubing, Snubbing, Wireline Surface	4.5	3.9
• Workover-Completion, Snubbing Surface	3-4	2.8
• Workover-Completion, Snubbing, Wireline Surface	3-4	3.3
• Workover-Completion, Wireline Surface	3-4	2.8
• Workover-Completion, Wireline, Coiled Tubing Surface	3-4	3.3
Introductory Level		
• Coiled Tubing, Snubbing, Wireline Surface	1-2	0.8
WCS Certified and IWCF Courses		
• Drilling Surface (imperial or metric)	2-3	2.0
• Drilling, Combined Surface/Subsea (imperial or metric)	2-3	2.0
The Well Control School Certified Courses		
Supervisor Level		
• Drilling Surface	2-3	2.0
• Drilling, Combined Surface/Subsea	2-3	2.5
• Drilling, Workover-Completion Surface	3-4	2.8
• Drilling, Workover-Completion, Combined Surface/Subsea	3-4	3.3
Fundamental Level		
• Drilling Surface	2-3	2.0
• Drilling, Combined Surface/Subsea	2-3	2.5
• Drilling, Workover-Completion Surface	3-4	2.8
• Drilling, Workover-Completion, Combined Surface/Subsea	3-4	3.3
Introductory Level		
• Basic Rig Math ***NEW***	1-2	1.6

INSTRUCTOR - *Led*

All courses are competency-based curriculum and meet industry guidelines. Certification is awarded upon successful completion of all course material and tests. State-of-the-art simulators and interactive exercises are used in each course to provide hands-on experience of real-life well control scenarios.

The Well Control School Certified and IWCF Courses

Drilling
Surface and Combined Surface/Subsea
Levels 3 and 4

Course Description: The course consists of well control training and testing on equipment, principles and procedures for drillers and drilling supervisors. The certification standards are based on a detailed analysis of the well control knowledge that drillers and supervisors require, along with practical tasks that they must master in order to perform their jobs responsibly. The standards have been devised so that the measurement of their skills and knowledge can be assessed systematically. The method of assessing the performance of an individual are divided into the following sections:

- A simulated practical exercise to assess practical skills
- Written test papers on equipment and principles, theories and procedures to assess knowledge-based skills

Course Content:
- Shut-in Pressure Observations
- Killsheet Exercises
- Surface Principles & Procedures
- Subsea Principles & Procedures
- Surface Equipment
- Subsea Equipment
- Causes of well control events
- How to predict and identify well control events
- Procedures to handle well control events with competence
- Identify well control equipment
- Understand operation of well control equipment
- Understand design limits and testing requirements of well control equipment

Target Audience: Drilling superintendents, toolpushers, drillers, assistant drillers, asset managers, consultants and engineers involved in international operations

Course Duration: 5 days | **CEU:** 3.6
Certification: WCS/IWCF/IACET

The Well Control School Certified and IADC WellSharp™ Courses

Drilling Surface
Driller and Supervisor levels
Surface and Combined Surface/Subsea

Course Description: Designed to meet industry guidelines, the WellSharp™ Drilling Well Control course addresses the basic principles and theories of well control and presents the most commonly used well control techniques.

Course Content: Pressure Basics, Kick Theory, Causes of Kicks, Complications, Shut-in Procedures, Fluids, Kick Warning Signs, Kill Sheets, BOP Equipment, Constant Bottomhole Pressure Methods, Regulations, Subsea (if requested), Stripping and a brief discussion on Snubbing.

Target Audience: Drilling superintendents, toolpushers, drillers, assistant drillers, floormen, derrickmen, roughnecks, asset managers, service company personnel, consultants, engineers

Course Duration: 3.5 – 5 days | **CEU:** 2.4 to 3.9

Certification: WCS/IADC/IACET

Workover-Completion
(add-on to the drilling course)
Driller and Supervisor levels

Course Description: This competency-based course presents commonly used well control techniques with workover-completion operations.

Course Content: Live Well Intervention Well Control, Complications, BOP Equipment, Killing a Producing Well, Pressure Control, Regulations, Surface / Subsurface Equipment, Kick Warning Signs, Remedial Fluids, Constant Bottomhole Pressure Methods, Stripping, Snubbing, and Coiled Tubing.

Target Audience: Superintendents, supervisors, toolpushers, operators, helpers, asset managers, service company personnel, consultants and engineers

Course Duration: 3.5 days | **CEU:** 2.4 to 3.9
Certification: WCS/IADC/IACET

The Well Control School Certified and IADC WellCAP® Courses

Workover-Completion, Coiled Tubing, Snubbing and Wireline Surface Fundamental and Supervisor levels

Course Description: The course presents commonly used well control techniques with workover-completion operations along with the three basic remedial operations of snubbing, wireline, and coiled tubing practices. The latest information and technologies available are utilized to instruct maintaining control of the well during workover-completion, coiled tubing, snubbing and wireline operations.

Course Content: Live Well Intervention Well Control, Complications, BOP Equipment, Killing a Producing Well, Pressure Control, Regulations, Surface Equipment, Kick Warning Signs, Remedial Fluids, Constant Bottomhole Pressure Methods, Stripping, Snubbing, Coiled Tubing and Wireline.

Targeted Audience: Superintendents, supervisors, toolpushers, operators, helpers, asset managers, service company personnel, consultants and engineers

Course Duration: 5 days | **CEU:** 3.9

Certification: WCS/IADC/IACET

Coiled Tubing Surface Supervisor level

Course Description: This course covers pressure control during coiled tubing operations.

Course Content: Reasons for Performing Coiled Tubing Operations, Coiled Tubing Pressure Basics, Overview of Coiled Tubing Equipment, Influx Fundamentals, Gas Characteristics and Behavior, Procedures, Well Control Techniques (Methods), Coiled Tubing Service Complications & Solutions, Rig BOP Equipment and Surface/Subsurface Wellbore Equipment, Drilling, Completion and Workover Fluids.

Target Audience: CT supervisors and operators, asset managers, consultants and engineers

Course Duration: 4.5 days | **CEU:** 3.7

Certification: WCS/IADC/IACET

Snubbing

Course Description: This course provides in-depth instruction on maintaining well control in snubbing operations. Class participants will learn how to implement guidelines and policies that enhance personnel safety and improve their performance as team leaders.

Course Content: Reasons for Snubbing Operations, Definitions and Calculations, Kick Fundamentals, Gas Characteristics and Behavior, Drilling, Completion, and Workover Fluids, General Surface Equipment, Snubbing Equipment, Well Control Procedures and Calculations, Complications and Solutions, Well Control Techniques, Well Kill Operations Organization, Testing, Government, Industry, and Company Rules, Orders, and Policies, Special Situations and Operations

Targeted Audience: Supervisors, unit operators, superintendents, project foreman, helpers (assistants to the unit operator) and asset managers

Course Duration: 4.5 days | **CEU:** 3.7

Certification: WCS/IADC/IACET

e-LEARNING

System 21 e-Learning Courses

Course Description: The System 21 e-Learning well control training program offers Well Control School, IADC training contains over 2,000 topics and skills, offering the highest level of training, testing, simulation, and overall measurement of employee competence. Interactive tasks and role-playing familiarize learners with well control concepts, emphasizing correct procedures and teamwork, while computer graphics dramatically depict downhole conditions, such as deepwater or horizontal drilling. As students complete each module, skill levels are recorded as the users work toward obtaining certification.

Course content and reports generated by System 21 also help companies conform to the standards set forth by ISO 9001, addressing training, record keeping and quality audits.

Modules

- Pressure Basics
- Fluids
- Equipment
- Kick Theory
- Kick Causes
- Kick Detection
- Procedures
- Well Control Methods
- Complications
- Special Situations
- Rules, Orders & Polices
- Remedial Operations
- Coiled Tubing
- Snubbing
- Wireline

Simulations

- Standpipe Manifold
- BOP Closing Unit
- Driller's Remote BOP Panel
- Choke Manifold-Surface / Subsea
- Alarm Setting
- Slow Pump Rate-Surface / Subsea
- Kill Sheet-Surface / Subsea
- Read, Record Shut-In Data
- Pump Startup-Surface / Subsea
- Pump Startup with Monitor Line Subsea
- Driller's Method-Surface / Subsea
- Wait-and-Weight Method

Target Audience: Drilling personnel, well servicing personnel, consultants, asset managers and engineers

Course Duration: 1-5 days | **CEU:** 0.8 to 3.9

Certification: WCS/IADC/IWCF/IACET

System 21 *e*-LEARNING Courses

Courses	Levels				Certifications			
	Level 2	Introductory	Fundamental	Supervisor	WCS	IADC WellCAP®	IADC WellSharp™	IWCF
• Basic Rig Math ***NEW***		•			•			
• Coiled Tubing Surface				•	•	•		
• Coiled Tubing, Snubbing, Wireline Surface		•			•	•		
• Drilling Operations ***NEW***		•			•		•	
• Drilling Surface			•	•	•			
• Drilling Surface (imperial and metric)	•							•
• Drilling, Combined Surface/Subsea			•	•	•			
• Drilling, Combined Surface/Subsea (imperial and metric)	•							•
• Drilling, Workover-Completion Surface			•	•	•			
• Drilling, Workover-Completion, Combined Surface/Subsea			•	•	•			
• Snubbing Surface			•	•	•	•		
• Snubbing, Wireline Surface			•	•	•	•		
• Wireline Surface			•	•	•	•		
• Workover-Completion Surface			•	•	•	•		
• Workover-Completion, Coiled Tubing Surface			•	•	•	•		
• Workover-Completion, Coiled Tubing, Snubbing Surface			•	•	•	•		
• Workover-Completion, Coiled Tubing, Snubbing, Wireline Surface			•	•	•	•		
• Workover-Completion, Snubbing Surface			•	•	•	•		
• Workover-Completion, Snubbing, Wireline Surface			•	•	•	•		
• Workover-Completion, Wireline Surface			•	•	•	•		
• Workover-Completion, Wireline, Coiled Tubing Surface			•	•	•	•		

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