COMMITTED TO QUALITY...
DELIVERING VALUE!
ABOUT US

Well Control School (WCS) is a leading provider of accredited well control training, developed to the latest industry standards. Combining certified, experienced instructors and realistic, simulated scenarios, WCS delivers first-class training to the global oil and gas industry through instructor-led, web-based and computer-based platforms at its training facilities in Houston, Texas; Lafayette, Louisiana; and Laurel, Mississippi.

WCS was founded in 1979 in New Orleans, Louisiana and acquired by RPC, Inc. in 1998. The only well control training provider to grant IACET-accredited Continuing Education Units (CEUs), it was one of the first commercial schools to offer the IADC WellCAP® certification program, a globally recognized well control accreditation program that develops curriculum guidelines for drilling and workover operations. In 2001, WCS developed the first IADC-approved, computer-based well control training program: SYSTEM 21 Well Control Training. WCS is the only provider to offer IADC-accredited well control training through three different formats: instructor-led, computer-based and web-based. WCS is also accredited through International Well Control Forum (IWCF) and American Petroleum Institute (API).

Since its inception, WCS has been committed to providing first rate training services and has trained and certified more than 75,000 students globally. WCS adheres to the highest training and operational standards and is ISO 9001:2008 certified through Det Norske Veritas (DNV), to ensure it provides the best services to its customers and stakeholders.

ACCREDITATIONS

American Petroleum Institute Training Provider Certification Program (API):
A certification program that sets the benchmark for industry products, services, equipment and safety guidelines.

International Association for Continuing Education and Training (IACET):
A highly regarded organization in the training industry that promotes and enhances the quality in continuing education and training (CEU) through the research, education and development and continuous improvement of criteria, principles and standards.

International Association of Drilling Contractors (IADC):
A membership-based organization dedicated to enhancing interests of the global oil and gas industry through advancements in technology, advocacy of sensible regulation and legislation, and improvements in safety and environmental policies.

IADC WellCAP®:
A well control accreditation program that develops curriculum guidelines for drilling and workover operations.

IADC WellCAP Plus®:
Designed specifically for supervisory-level personnel, this well control program utilizes a facilitated learning approach to improve problem-solving and critical thinking skills.

International Well Control Forum (IWCF):
A oil industry organization established in Europe to develop and administer well control certifications programs for personnel in Drilling, Workover and Well Intervention Operations.
## COURSES OFFERED

**INSTRUCTOR - Led COURSES**

<table>
<thead>
<tr>
<th>IADC WELLCAP® Level: Fundamental or Supervisory</th>
<th>DURATION</th>
<th>CEUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• DRILLING</td>
<td>3 - 4 DAYS</td>
<td>2.0 - 2.5</td>
</tr>
<tr>
<td>• DRILLING, WORKOVER / COMPLETION</td>
<td>4 - 5 DAYS</td>
<td>2.8 - 3.3</td>
</tr>
<tr>
<td>• WORKOVER / COMPLETION, COILED TUBING, SNUBBING, WIRELINE</td>
<td>5 DAYS</td>
<td>3.9</td>
</tr>
<tr>
<td>• COILED TUBING, SUPERVISORY</td>
<td>5 DAYS</td>
<td>3.7</td>
</tr>
<tr>
<td>• SNUBBING, SUPERVISORY</td>
<td>5 DAYS</td>
<td>3.7</td>
</tr>
</tbody>
</table>

**System 21 e-LEARNING COURSES**

<table>
<thead>
<tr>
<th>IADC WELLCAP® Level: Introductory, Fundamental, and Supervisory Levels</th>
<th>DURATION</th>
<th>CEUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• DRILLING</td>
<td>1 - 3 DAYS</td>
<td>0.8 - 2.5</td>
</tr>
<tr>
<td>• DRILLING, WORKOVER / COMPLETION COMBINATION</td>
<td>1 - 4 DAYS</td>
<td>0.8 - 3.3</td>
</tr>
<tr>
<td>• WORKOVER / COMPLETION</td>
<td>1 - 3 DAYS</td>
<td>0.8 - 2.0</td>
</tr>
<tr>
<td>• WORKOVER / COMPLETION, W/1 WELL SERVICING OPTION</td>
<td>1 - 4 DAYS</td>
<td>0.8 - 2.8</td>
</tr>
<tr>
<td>• WORKOVER / COMPLETION, W/2 WELL SERVICING OPTION</td>
<td>1 - 4 DAYS</td>
<td>0.8 - 3.3</td>
</tr>
<tr>
<td>• WORKOVER / COMPLETION, W/3 WELL SERVICING OPTION</td>
<td>2 - 5 DAYS</td>
<td>0.8 - 3.9</td>
</tr>
<tr>
<td>• SNUBBING</td>
<td>1 - 3 DAYS</td>
<td>0.8 - 2.1</td>
</tr>
<tr>
<td>• WIRELINE</td>
<td>1 - 3 DAYS</td>
<td>0.8 - 1.6</td>
</tr>
<tr>
<td>• SNUBBING &amp; WIRELINE COMBINATION</td>
<td>2 - 3 DAYS</td>
<td>0.8 - 2.6</td>
</tr>
</tbody>
</table>

The courses listed below are only available at an Introductory level on System 21:

<table>
<thead>
<tr>
<th>IADC WELLCAP® Web-Based or Computer-Based Introductory, Fundamental, and Supervisory Levels</th>
<th>DURATION</th>
<th>CEUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• COILED TUBING</td>
<td>1 - 2 DAYS</td>
<td>0.8</td>
</tr>
<tr>
<td>• COILED TUBING, SNUBBING COMBINATION</td>
<td>1 - 2 DAYS</td>
<td>0.8</td>
</tr>
<tr>
<td>• COILED TUBING, WIRELINE COMBINATION</td>
<td>1 - 2 DAYS</td>
<td>0.8</td>
</tr>
<tr>
<td>• COILED TUBING, SNUBBING &amp; WIRELINE COMBINATION</td>
<td>2 - 3 DAYS</td>
<td>0.8</td>
</tr>
</tbody>
</table>

**System 21 e-LEARNING**

- Web-Based courses are offered on the web. Students can enroll online.
- PHONE: 1.877.575.8311 (tech support)
- EMAIL: e-learning@wellcontrol.com
- WEB: www.wcsonlineuniversity.com

**LOCATIONS**

**Houston, Texas**
16770 Imperial Valley Drive, Suite 290
Houston, Texas 77060

**Lafayette, Louisiana**
1801 West Pinhook Road
Lafayette, Louisiana 70508

**Laurel, Mississippi**
1618 Old Amy Road
Laurel, Mississippi 39440
IADC WellCAP® & API Drilling

Course Description: Designed to meet industry guidelines, the WellCAP® Drilling Well Control course is a competency-based training course that addresses the basic principles and theories of well control and presents the most commonly used well control techniques. Simulators are utilized to conduct hands-on training.

Course Content: Pressure Basics, Kick Theory, Causes of Kicks, Complications, Shut-in Procedures, Fluids, Kick Warning Signs, Killsheets, 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 – 4 Days  |  CEUs: 2.0 – 2.5

IADC WellCAP® & API Well Completion/Workover

Course Description: This competency-based course presents commonly used well control techniques with workover operations. The latest information and technologies available are utilized to instruct maintaining control of the well during 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, Engineers

Course Duration: 3 – 4 Days  |  CEUs: 2.0 – 2.5

IADC WellCAP® & API Well Servicing

Course Description: The course presents the three basic remedial operations of snubbing, wireline, and coiled tubing practices. The candidate may select any one, two, or all three of these operations after being instructed in general well control theories and procedures.

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, Engineers

Course Duration: 4 – 5 Days  |  CEUs: 3.4 – 3.7
IADC WellCAP® Well Control for Coiled Tubing Operations

Meets industry guidelines. Certification is awarded upon successful completion at the Fundamental or Supervisory levels.

Course Description: This course provides a foundation for knowledge of pressure control during coiled tubing operations. Instructions in maintaining control of the well during Coiled Tubing well intervention activities are demonstrated through the latest technology and industry standards. Actual Coiled Tubing Simulators, designed by Drilling Systems, will be utilized in this program to assist the student in understanding and handling actual well control situations, providing added benefit to the student.

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

Targeted Audience: CT Supervisors / Operators, Asset Managers, Consultants, Engineers

Course Duration: 4 – 5 Days | CEUs: 3.4 – 3.7

IWCF Rotary Drilling Well Control Course

This internationally recognized certification program contains separate levels of training and tests for Drillers and Supervisors, in either Surface BOP Stack operations or Combined Surface / Subsea BOP Stack operations. Candidates are required to pass all tests in order to receive certification.

Course Description: The course consists of well control training and testing on Equipment / Principles & Procedures for Drillers and Drilling Supervisors based on the IWCF Certification Standards. 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 have to 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 in both Driller and Supervisor levels are divided into the following sections:

• A simulated practical exercise to assess practical skills
• Written test papers on Equipment and Principles, Theories & 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

Targeted Audience: Drilling Superintendents, Toolpushers, Drillers, Assistant Drillers, Asset Managers, Consultants, Engineers involved in international operations.

Course Duration: 5 Days | CEUs: 3.6
IADC WellCAP® Snubbing Course

Meets industry guidelines. Supervisory-Level Certification is awarded upon successful completion of the course.

Course Description: Based on the IADC certification standards, 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. Interactive exercises are delivered through a state-of-the-art simulator that models the entire hydraulic system, the geophysical forces of a live well, and the complex mechanical equipment used to move pipe in and out of a well safely. The controls are accurately modeled to the physics of the entire snubbing operation to provide accurate gauge pressures in real time. These scenarios are designed to develop critical thinking skills needed for field application.

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
- Special Situations and Operations

Targeted Audience: Supervisors, Unit Operators, Superintendents, Project Foreman, Helps (Assistants to the Unit Operator), Asset Managers

Course Duration: 5 Days | CEUs: 3.7

Drilling Simulator Workshop
Interactive Problem-Solving Scenarios for Drilling Applications

Course Description: This course is designed to augment the requirements of a standard WellCAP® course, using interactive drilling scenarios to enhance the problem-solving skills required for various well control operations. Class participants will engage in a minimum of eight (8) hands-on exercises to demonstrate their knowledge of gas behavior in oil and gas wells and its inherent dangers, and common complications that may occur during well control operations and possible solutions.

Course Content:
- Pre-recorded pressure information measurement and flow return and pit alarm settings
- Maintenance of top drive RPM, weight on bit, and pump speed while drilling ahead
- Recognition of potential kick indications while drilling ahead and flow check performance
- Recording shut-in pressure and kick sizes
- Estimating kick height, volume, and density
- Maintenance of correct bottomhole pressure when circulating out gas kicks
- Use Driller’s Method and Wait-and-Weight Method to perform:
  - Gas kick circulation
  - Start-up pressure maintenance
  - Start-up pressure maintenance
  - Completion of IADC well control worksheets

Targeted Audience: Drilling Superintendent, Toolpushers, Drillers, Assistant Drillers, Floormen, Derrickmen, Roughnecks, Asset Managers, Service Company Personnel, Consultants, Engineers with a current IADC WellCAP® Drilling certification

Course Duration: 5 Days | CEUs: 3.7
IADC WellCAP® & API Well Control Training

Course Description: System 21 e-Learning Well Control training is certified by IADC and API. System 21 is available via Web-Based or Computer-Based delivery. The 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 in Drilling, Well Workover / Well Completion, Well Servicing (Snubbing, Coiled Tubing, Wireline) in Surface and Subsea stack.

Course content and reports generated by System 21 also help companies conform to the standards set forth by ISO 9000, addressing training, record keeping and quality audits.

Target Audience: All Drilling / Well Servicing Personnel, Consultants, Asset Managers, Engineers

Course Duration: 1 - 4 Days  |  CEUs: 0.8 – 4.1

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

Gap Analysis Program

Course Description: The Gap Analysis Program, also known as Quiz Maker, generates custom examinations for well control applications for training and skill evaluation purposes. The Gap Analysis Program helps companies meet the requirements set by the Bureau of Safety and Environmental Enforcement (BSEE) training regulations for continuous testing and on-the-job training. Supervisors, training administrators and independent auditors can select the type of questions to be compiled in the quiz based on course level (introductory, fundamental or supervisory), BOP stack qualification and the accrediting organization. Administrators are allowed to select the number of questions in any subject area for the exam. The questions, extracted from over 2,000 well control topics in System 21, can be focused on any specific area of well control.

Once the administrator has defined the parameters of the quiz and it has been generated, users are allowed to log-in and take the exam. An incorrect response will automatically redirect the student to a remediation section, that covers the area specific to the question missed. A final report shows the topics and skills that have been administered and assessed and a final grade. This report is a powerful tool for measuring the training retention levels and identifying areas where additional training should be directed. The Gap Analysis Program can be easily used in field locations, offices and training centers.