Ensuring Basic Competency in Well Control

**Competency** — Ability to perform specific tasks in the workplace from proven skill, knowledge and experience, adhering to industry’s accepted standards.

**Competent individual** — Ability of the individual to perform his/her job consistently, safely and successfully through acquired skills and knowledge.
Training & Competence in Well Control:
— Reduce accidents (blowouts, casualties)
— Reduce downtime
— Reduce loss in investment and equipment
— Reduce environmental damage
— Reduce risk to assets
Two internationally well known standards dedicating competency in Well Control:

— International Association of Drilling Contractors (IADC)
— International Well Control Forum (IWCF),
  and a joint program of both standards,
— International Alliance for Well Control (IAWC)
Well Control Training Standards

IADC WellCAP
— "Based on the principle that proper training, emphasizing the knowledge and practical skills critical to successful well control, produces competent rig crews."

IWCF Well Control
— Practical assessment and written tests provide the basis to measure basic well control skills & knowledge.

IAWC
— Recognition of both WellCAP and IWCF drilling programs.
<table>
<thead>
<tr>
<th>IADC WellCAP</th>
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<tbody>
<tr>
<td>— Introductory Level:</td>
<td>Derrickman, Floorhands, Non-technical personnel</td>
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<tr>
<td>— Fundamental Level:</td>
<td>Driller, Assistant Driller</td>
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<tr>
<td>— Supervisory Level:</td>
<td>Company Man, Mud Engineer, Rig Superintendant, Tool Pusher</td>
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<thead>
<tr>
<th>WellCAP Plus</th>
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<tbody>
<tr>
<td>— Personnel:</td>
<td>Company Men, Managers, Engineers, Driller, Rig Supervisors</td>
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<tr>
<td>— Courses aim to improve/stimulate</td>
<td>critical thinking and problem solving skills</td>
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Passing Grade for WellCAP is ≥ 70 %  
(Completed with minimum 20 hours class attendance )  
Passing Grade for WellCAP Plus is ≥ 80 %
Course Contents

**IADC WellCAP**
Drilling, Workover and Completion, Wireline (WL), Coil tubing (CT), Snubbing (SN), and Underbalance operations (UBO), and Practical simulator exercise

**IWCF Well Control**
Drilling, WL, CT, SN, and Practical simulator exercise
IADC
*Competence Assurance Accreditation Program (CAAP)
— Personnel: Well Control Crews, Managers, Coaches, Mentors, Instructors, Assessors, Lawyers, etc.

— Voluntary system
— Open to all oil companies
— To assure accrediting companies meet accepted standard practices to develop and ensure the skills of their personnel
IADC
*CAAP Accreditation Criteria
— Training policy and procedures documents
— Identification of job positions
— Training methods and resources
— Assessment systems
— Record keeping systems, and
— Quality assurance

— The CAAP’s accreditation duration is for five (5) years
IWCF Drilling Well Control
— Introductory Level: Floor-hands, Derrickmen
— Driller’s Level: Driller, Assistant Driller
— Supervisor’s Level: Company Man, Mud Engineer, Rig Superintendent, Tool Pusher

Well Service personnel
— Two Levels, Level 1 and Level 2

  In addition,
— Select one or more of the following: CT, WL, SN
  Passing Grade for certification course is ≥ 70 %
IWCF
*Quality Assured Training Course program (QATC)

— Provide a quality management system for well control training courses developed to prepare students for IWCF Certification programs

— The QATC accreditation duration is for three (3) years

  Passing Grade for certification course is $\geq 70\%$
## Organization’s Statistics:

<table>
<thead>
<tr>
<th>IADC</th>
<th>IWCF</th>
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<tbody>
<tr>
<td>- 90 accredited members</td>
<td>- 96 accredited members</td>
</tr>
<tr>
<td>- 896 associate members&lt;sup&gt;1&lt;/sup&gt;</td>
<td>- 171 members</td>
</tr>
<tr>
<td>- Average 13,195 certificates&lt;sup&gt;2&lt;/sup&gt; /yr</td>
<td>- Average 13,768 certificates&lt;sup&gt;2&lt;/sup&gt;/yr</td>
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<tr>
<td>- Instruction in 15 languages</td>
<td>- Instruction in 16 languages</td>
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</table>

<sup>1</sup> 1342 (contractors, producers, & associate members)  
<sup>2</sup> As of 2008
Conclusion

1. Basic competency in well control is important in the oil and gas industry to prevent blowouts and mitigate well control problems.

2. Both IADC WellCAP and IWCF certification programs provide the required basic competency standards of well control training.
What is the difference between WellCAP & IWCF?

Steve Kropla, IADC Group Vice President-Operations and Accreditation, described:

“They are two different approaches, WellCap focuses on training, while IWCF focuses on testing, but the consensus of regulators around the world is that either provide the required basic foundation of well control training."
Question

1. How does one determine that an individual is competent and has the required skill and knowledge?

2. After passing a well control examination does it indicate that an individual has acquired the required level of competency for his/her assigned jobs?
Competency Acceptance

- A competent individual exhibits the ability to perform specific tasks in the workplace from proven skill, knowledge and experience, adhering to industry’s accepted standards.

- He / She acquires the required competency by attending established accredited well control course from IADC and IWCF

- Maintaining competence consistency attending refresher course prior to expiry of valid certificate
Thank you!