

IWCF Level 3 & 4 Well Intervention: Training Overview (5 days)

Training Outcome:

Upon successful completion of the IWCF Level 3 & 4 Well Intervention course, participants will:

- Gain a comprehensive understanding of well control principles and techniques specific to well intervention operations.
- Develop skills to recognize, prevent, and manage well control incidents.
- Be able to make informed decisions during well intervention operations.
- Meet the IWCF standards for well intervention, which is recognized globally by the oil and gas industry.
- Be prepared to take the IWCF Level 3 (Supervisor) or Level 4 (Manager) certification exam.

Objectives:

- To ensure that participants understand the fundamentals of well control during intervention operations.
- To familiarize participants with the equipment, procedures, and techniques used in well intervention.
- To develop participants' ability to recognize well control problems and implement corrective actions.
- To ensure that participants can conduct well intervention operations safely and efficiently.
- To meet the industry's regulatory requirements and standards for well control during well intervention.

Course Overview:

The IWCF Level 3 & 4 Well Intervention course is designed for oil and gas industry professionals involved in well intervention operations, including those in supervisory and managerial roles. The course provides a detailed understanding of well control during various well intervention activities, such as wireline, coiled tubing, and snubbing operations.

Key Components:

- **Well Control Principles:** Fundamental concepts of well control, including pressure management and barrier philosophy.
- **Well Intervention Equipment:** Overview of the equipment used in well intervention, such as wireline units, coiled tubing, snubbing, and wellhead equipment.
- **Operational Procedures:** Detailed procedures for conducting safe and effective well intervention operations.
- **Risk Management:** Identifying and managing risks associated with well intervention activities.
- **Simulation Exercises:** Hands-on training through simulation exercises to apply well control techniques in realistic scenarios.
- **Regulatory Compliance:** Understanding the regulatory and industry standards for well control.

Course Syllabus:

1. **Introduction to Well Control for Intervention Operations**
 - Well control basics
 - Well control philosophy and barriers
 - Differences between drilling and intervention well control
2. **Pressure Control Equipment**
 - Well intervention equipment overview
 - Wireline, coiled tubing, and snubbing equipment
 - Wellhead equipment and their roles in well control
3. **Well Control Techniques**
 - Surface pressure management
 - Well shut-in procedures
 - Handling well control emergencies
4. **Operational Considerations**
 - Planning and executing well intervention operations
 - Risk assessment and hazard identification
 - Safety management systems
5. **Simulation Exercises**
 - Practical exercises using simulators
 - Application of well control techniques in various scenarios
 - Real-time decision-making under simulated conditions
6. **Regulatory Requirements**
 - Industry standards and regulations (e.g., IWCF, IADC)
 - Compliance with international and regional standards
7. **Examination Preparation**
 - Review of key concepts and techniques
 - Mock exams and preparation for IWCF certification

Who Should Attend:

- **Level 3 (Supervisor):**
 - Individuals who supervise well intervention operations, such as wellsite supervisors, wireline supervisors, and intervention engineers.
 - Professionals responsible for overseeing well control during intervention activities.
- **Level 4 (Manager):**
 - Senior personnel responsible for the overall management of well control and intervention operations, such as drilling managers, well intervention managers, and well operations managers.
 - Individuals involved in decision-making at the managerial level for well control during intervention.

This course is essential for anyone involved in well intervention operations who needs to understand well control principles and meet industry certification requirements.

IWCF Level 3 & 4 Drilling: Training Overview (5 days)

Training Outcome:

Upon successful completion of the IWCF Level 3 & 4 Drilling course, participants will:

- Acquire a deep understanding of well control principles and practices specific to drilling operations.
- Develop the ability to identify, prevent, and manage well control incidents during drilling.
- Gain the skills needed to effectively implement well control procedures.
- Be prepared to take the IWCF Level 3 (Supervisor) or Level 4 (Manager) certification exam, meeting industry standards for drilling well control.

Objectives:

- To ensure participants understand the fundamentals of well control in drilling operations.
- To equip participants with the knowledge of well control equipment, procedures, and techniques.
- To develop participants' ability to detect well control problems and respond effectively.
- To ensure participants can conduct drilling operations safely and efficiently, adhering to well control best practices.
- To comply with regulatory and industry standards for drilling well control.

Course Overview:

The IWCF Level 3 & 4 Drilling course is tailored for professionals in the oil and gas industry who are involved in drilling operations, including those in supervisory and managerial roles. The course covers the key aspects of well control during drilling, focusing on the prevention and management of well control incidents.

Key Components:

- **Well Control Fundamentals:** Introduction to pressure concepts, barrier management, and well control principles.
- **Well Control Equipment:** Detailed study of the equipment used in drilling, including blowout preventers (BOPs), kill systems, and other critical components.
- **Operational Procedures:** Comprehensive training on the procedures required to maintain well control during drilling operations.
- **Risk Management:** Techniques for identifying and mitigating risks associated with drilling operations.
- **Practical Simulations:** Hands-on experience using simulators to practice well control techniques in realistic scenarios.
- **Regulatory Compliance:** Understanding of the regulatory requirements and industry standards governing well control in drilling operations.

Course Syllabus:

1. **Introduction to Well Control**
 - Basic well control concepts
 - Importance of barrier management
 - Differences between drilling and other well control operations
2. **Well Control Equipment**
 - Blowout Preventers (BOPs)
 - Choke and kill systems
 - Drilling fluids and their role in well control
3. **Well Control Techniques**
 - Kick detection and shut-in procedures
 - Well control methods (driller's method, wait-and-weight method, etc.)
 - Well control calculations and pressures
4. **Operational Practices**
 - Monitoring and maintaining well control
 - Drilling operational procedures and safety practices
 - Contingency planning for well control incidents
5. **Simulation Exercises**
 - Use of simulators for real-time decision-making
 - Practical application of well control techniques
 - Response to well control scenarios under simulated conditions
6. **Regulatory and Industry Standards**
 - IWCF standards and certification requirements
 - Compliance with international and regional well control regulations
7. **Examination Preparation**
 - Review of key concepts and techniques
 - Practice exams to prepare for IWCF certification

Who Should Attend:

- **Level 3 (Supervisor):**
 - Drilling supervisors, toolpushers, and other supervisory personnel involved in drilling operations.
 - Individuals responsible for overseeing well control on a drilling rig.
- **Level 4 (Manager):**
 - Senior personnel, such as drilling engineers, drilling superintendents, and wellsite managers, who are responsible for the overall management of well control during drilling operations.
 - Individuals involved in decision-making and the management of drilling operations.

This course is vital for those who are responsible for well control during drilling operations and who need to achieve or maintain IWCF certification at the supervisory or managerial level.

IADC WellSharp Drilling (Driller & Supervisor Level): Training Overview (5 days)

Training Outcome:

Upon successful completion of the IADC WellSharp Drilling course at the Driller and Supervisor levels, participants will:

- Gain a thorough understanding of well control principles relevant to drilling operations.
- Develop the ability to identify, prevent, and manage well control incidents during drilling activities.
- Be equipped with the necessary skills to implement well control procedures effectively.
- Meet the IADC WellSharp certification requirements, which are globally recognized in the oil and gas industry.
- Enhance their decision-making skills in well control situations to ensure the safety and efficiency of drilling operations.

Objectives:

- To provide participants with a deep understanding of well control concepts and procedures in drilling operations.
- To familiarize participants with the critical equipment and techniques used in well control.
- To ensure that participants can effectively manage well control incidents and maintain control of the well.
- To comply with the industry standards and regulatory requirements for well control.
- To prepare participants for the IADC WellSharp certification exam.

Course Overview:

The IADC WellSharp Drilling course is designed for drilling personnel at both the Driller and Supervisor levels. The course focuses on developing a comprehensive understanding of well control during drilling operations, emphasizing practical skills and knowledge to handle well control situations.

Key Components:

- **Well Control Fundamentals:** Introduction to well control concepts, including pressure management and barrier principles.
- **Well Control Equipment:** Detailed study of well control equipment, such as blowout preventers (BOPs), choke and kill systems, and related components.
- **Operational Procedures:** Training on the procedures needed to maintain well control during drilling operations.
- **Risk Management:** Techniques to identify, assess, and mitigate risks associated with drilling operations.
- **Simulation Exercises:** Hands-on practice through simulations to apply well control techniques in realistic scenarios.
- **Regulatory Compliance:** Understanding and adhering to industry standards and regulations governing well control.

Course Syllabus:

1. **Introduction to Well Control**
 - Basic well control principles
 - The role of barriers in well control
 - Overview of drilling operations and well control integration
2. **Well Control Equipment**
 - Types of Blowout Preventers (BOPs)
 - Choke and kill systems
 - Function and maintenance of well control equipment
3. **Kick Detection and Well Control Techniques**
 - Kick detection methods and indicators
 - Shut-in procedures
 - Well control methods (driller's method, wait-and-weight method, etc.)
 - Well control calculations and pressures
4. **Operational Practices and Safety**
 - Well monitoring and control during drilling operations
 - Safety management systems and emergency response
 - Contingency planning for well control incidents
5. **Simulation Exercises**
 - Practical use of simulators for decision-making under pressure
 - Application of well control techniques in simulated drilling scenarios
 - Real-time response to well control events
6. **Regulatory and Industry Standards**
 - IADC WellSharp certification requirements
 - Compliance with international well control standards and regulations
7. **Examination Preparation**
 - Review of key well control concepts and practices
 - Mock exams to prepare for the IADC WellSharp certification

Who Should Attend:

- **Driller Level:**
 - Drillers, assistant drillers, and other drilling crew members who are directly involved in drilling operations and well control activities.
 - Personnel responsible for executing well control procedures on the rig floor.
- **Supervisor Level:**
 - Drilling supervisors, toolpushers, drilling engineers, and other supervisory personnel who oversee drilling operations and are responsible for well control.
 - Individuals involved in decision-making and management of well control operations.

This course is crucial for those who are actively involved in drilling operations and need to achieve or maintain IADC WellSharp certification at the Driller or Supervisor level.

IADC Well Servicing (Driller & Supervisor Level): Training Overview (5 days)

Training Outcome:

Upon successful completion of the IADC Well Servicing course at the Driller and Supervisor levels, participants will:

- Obtain a comprehensive understanding of well control principles specific to well servicing operations.
- Develop the skills necessary to recognize, prevent, and manage well control incidents during well servicing activities.
- Gain proficiency in implementing well control procedures effectively across various well servicing operations.
- Meet the IADC WellSharp certification requirements, which are recognized worldwide in the oil and gas industry.
- Enhance their ability to make informed decisions during well servicing operations to ensure safety and operational efficiency.

Objectives:

- To equip participants with a solid foundation in well control concepts and practices for well servicing operations.
- To familiarize participants with the critical equipment and procedures used in maintaining well control during well servicing.
- To ensure participants are capable of responding effectively to well control incidents in a well servicing environment.
- To comply with industry standards and regulatory requirements for well control during well servicing operations.
- To prepare participants for the IADC WellSharp certification exam at the Driller or Supervisor level.

Course Overview:

The IADC Well Servicing course is designed for personnel involved in well servicing operations, including those at the Driller and Supervisor levels. The course focuses on well control principles and practices tailored to the unique challenges of well servicing activities, such as coiled tubing, wireline, and snubbing operations.

Key Components:

- **Well Control Fundamentals:** Introduction to the principles of well control, focusing on well servicing scenarios.
- **Well Control Equipment:** Detailed study of the equipment used in well servicing, including wellhead components, BOPs, and specialized servicing tools.
- **Operational Procedures:** Comprehensive training on the procedures required to maintain well control during various well servicing operations.
- **Risk Management:** Techniques for identifying and mitigating risks associated with well servicing.
- **Practical Simulations:** Hands-on training through simulation exercises to apply well control techniques in realistic well servicing scenarios.

- **Regulatory Compliance:** Understanding and adhering to industry standards and regulations governing well control in well servicing operations.

Course Syllabus:

1. **Introduction to Well Control in Well Servicing**
 - Well control concepts tailored to well servicing
 - Understanding the differences between drilling and well servicing well control
 - The role of barriers in maintaining well integrity during servicing
2. **Well Control Equipment for Well Servicing**
 - Overview of wellhead components and BOPs used in well servicing
 - Coiled tubing, wireline, and snubbing equipment
 - Maintenance and function of well control equipment in servicing operations
3. **Well Control Techniques**
 - Kick detection and shut-in procedures specific to well servicing
 - Well control methods adapted for servicing operations
 - Pressure control and well integrity management
4. **Operational Practices**
 - Monitoring and maintaining well control during well servicing operations
 - Safety protocols and emergency response during servicing
 - Best practices for conducting safe and efficient well servicing operations
5. **Simulation Exercises**
 - Practical use of simulators for well servicing scenarios
 - Application of well control techniques in simulated servicing conditions
 - Real-time response to well control events in a servicing context
6. **Regulatory and Industry Standards**
 - IADC WellSharp certification requirements for well servicing
 - Compliance with international and regional well control standards
7. **Examination Preparation**
 - Review of key concepts and techniques in well servicing well control
 - Mock exams to prepare for the IADC WellSharp certification

Who Should Attend:

- **Driller Level:**
 - Drillers, assistant drillers, and other crew members involved in well servicing operations, including those responsible for executing well control procedures during servicing.
 - Personnel who need to understand and apply well control techniques in well servicing activities.
- **Supervisor Level:**
 - Supervisory personnel, such as wellsite supervisors, toolpushers, and well servicing engineers, who oversee well servicing operations and are responsible for well control.
 - Individuals involved in decision-making and management of well control during well servicing operations.

This course is essential for professionals involved in well servicing operations who need to achieve or maintain IADC WellSharp certification at the Driller or Supervisor level.

IADC Stuck Pipe Prevention: Training Overview (2 days)

Training Outcome:

Upon successful completion of the IADC Stuck Pipe Prevention course, participants will:

- Develop a comprehensive understanding of the causes and mechanisms of stuck pipe incidents.
- Gain the ability to recognize early warning signs of stuck pipe situations.
- Learn and apply strategies to prevent stuck pipe occurrences.
- Be equipped with the knowledge to respond effectively to stuck pipe incidents if they occur.
- Enhance operational efficiency by minimizing the risks and costs associated with stuck pipe events.

Objectives:

- To provide participants with a detailed understanding of the causes of stuck pipe incidents in drilling operations.
- To familiarize participants with the techniques and best practices for preventing stuck pipe situations.
- To develop participants' ability to identify early warning signs and implement corrective actions promptly.
- To ensure participants can effectively respond to and manage stuck pipe incidents.
- To promote safe and efficient drilling operations by reducing the likelihood of stuck pipe events.

Course Overview:

The IADC Stuck Pipe Prevention course is designed for drilling personnel who are directly involved in drilling operations. The course focuses on the identification, prevention, and management of stuck pipe situations, which are among the most common and costly issues in drilling operations.

Key Components:

- **Understanding Stuck Pipe:** Exploration of the types, causes, and consequences of stuck pipe incidents.
- **Prevention Strategies:** Detailed strategies for preventing stuck pipe, including operational best practices and equipment usage.
- **Early Detection:** Techniques for identifying the early signs of stuck pipe and implementing preventive measures.
- **Response and Management:** Methods for freeing stuck pipe and minimizing downtime and costs.
- **Case Studies and Lessons Learned:** Review of real-world stuck pipe incidents to illustrate key concepts and strategies.

Course Syllabus:

1. **Introduction to Stuck Pipe**
 - Overview of stuck pipe incidents in drilling
 - Types of stuck pipe (differential, mechanical, and pack-off)
 - Consequences of stuck pipe for drilling operations
2. **Causes of Stuck Pipe**
 - Geological factors (formation characteristics, borehole instability)
 - Operational factors (drilling practices, equipment issues)
 - Human factors (decision-making, communication)
3. **Stuck Pipe Prevention Strategies**
 - Drilling practices to minimize the risk of stuck pipe
 - Proper use of drilling fluids and lubrication techniques
 - Borehole stability management and monitoring
4. **Early Detection and Warning Signs**
 - Monitoring drilling parameters for signs of stuck pipe
 - Identifying abnormal torque, drag, and fluid loss
 - Implementing immediate corrective actions
5. **Responding to Stuck Pipe Incidents**
 - Techniques for freeing stuck pipe (jarring, back reaming, spotting fluids)
 - Use of specialized tools and equipment
 - Managing the impact of stuck pipe on operations
6. **Case Studies and Lessons Learned**
 - Analysis of historical stuck pipe incidents
 - Best practices and lessons learned from industry experiences
 - Practical application of prevention and response techniques
7. **Examination Preparation**
 - Review of key concepts and techniques
 - Practice questions and scenarios to reinforce learning

Who Should Attend:

- **Drillers and Assistant Drillers:** Personnel directly involved in drilling operations who need to understand the risks and prevention of stuck pipe.
- **Drilling Supervisors and Engineers:** Supervisory personnel responsible for overseeing drilling operations and managing stuck pipe incidents.
- **Wellsite Geologists and Mud Engineers:** Professionals involved in monitoring drilling conditions and fluid management, who play a key role in stuck pipe prevention.
- **Toolpushers and Rig Managers:** Senior personnel responsible for overall drilling operations and ensuring the implementation of stuck pipe prevention strategies.

This course is crucial for drilling professionals who aim to reduce the risks associated with stuck pipe incidents and ensure the safe and efficient progress of drilling operations.