



*A IWCF Training Course (Certificate Course)*

***Well Intervention & Pressure Control - Level 2***

*From 03/11/2019 To 07/11/2019*

*Egypt, Cairo, Horizon Shahrazad Hotel*  
*182 El Nil Street, Cairo, Egypt*

***5775 USD (10% Special Discount For Groups)***

### ***Introduction:***

This course aims to raise the awareness of the negative impact and effect of a well control incident. To provide the required comprehensive knowledge and skills to carry out well intervention operations.

#### Note:

- Certificate course will be 4 days from (03/11/2019 To 06/11/2019) Explain Theoretical & Practical Cases, The last day (07/11/2019) will be an exam.
- The course will be held (4 days from "03/11/2019 To 06/11/2019" in Egypt, Cairo, Horizon Shahrazad Hotel and the last day "07/11/2019" will be in STC Training Center "Cairo")
- The dead day registration (attendance names, passports copy & positions) 24/10/2019.

### ***Audience:***

All personnel concerned with well intervention operations (wire-line, coiled tubing, snubbing, workover) involved in operations linked to the detection of a kick: engineers, supervisors and operators who have to supervise or carry out well intervention operations.

### ***Learning Objectives:***

Upon completion of the course, participants will be able to:

- Understand the impact and consequences of a blowout.
- Know the safety barrier principles.
- Understand the behavior of a producing well.
- Learn the various tools used during well interventions and Workovers.
- Be aware of the methods used to control well pressure.
- Learn procedures and equipment used in wireline, coiled tubing, snubbing, workover.
- Obtain the level 2 IWCF certification on "Well Intervention".

### ***The Course Content***

#### **BASIC PRINCIPLES & WELL FUNDAMENTALS**

Type of well effluents (heavy oil, oil, gas).

Hydrostatic and hydrodynamic pressures.  
Specific gravities, densities, pressure gradient.  
Over-balance/under-balance.  
Pore pressure, frac. pressure.

### **PRESSURE CONTROL APPLIED TO COMPLETION & WELL INTERVENTION**

Safety barriers, pressure tests.  
Well calculation (pressure, volume, kill fluid, pumping time, balancing the pressure at the depth of the circulating device...).  
Shut in procedures.  
Kill methods (direct or reverse circulation, bull heading, lubricate and bleed...).  
Specific problems linked to producing wells (losses, plugging, migration, hydrates, H2S and CO2 ...).

### **COMPLETION EQUIPMENT**

Different types of completion.  
Downhole equipment (packers, safety valves), nipples, side pocket mandrels, tubing (sizes, grades and connections), Xmas tree...

### **DIFFERENT TYPES OF INTERVENTION WITH THEIR RESPECTIVE EQUIPMENT**

Wire line intervention (optional)

- Safety barriers and specific equipment.
- Rigging up and pressure tests surface pressure control equipment.
- Slick line: specific equipment (BOP, lubricator, stuffing box, cable cutter valve...).
- Braided line, e-line: specific equipment (twin BOP, grease injection system, pack-off system, tool-trap, tool-catcher...).

Coiled tubing (optional)

- Barriers and specific equipment (strippers, BOP...).
- Rigging up and pressure tests surface pressure control equipment.

Snubbing (optional)

- Barriers and specific equipment (strippers, annular BOP, stripping rams, safety rams...).
- Rigging up and pressure tests surface pressure control equipment.

### **IWCF CERTIFICATION**

Written test on Completion Equipment (compulsory).  
Written test on Completion Operations (compulsory).  
Written test on Wire Line operations (optional).  
Written test on Coiled Tubing operations (optional).  
Written test on Snubbing operations (optional).

[Note: 1, 2 or 3 options has to be selected in addition to the compulsory tests.](#)