

Advanced Well Integrity Management

THREE DAY INTENSIVE COURSE

Perth, Western Australia, 25 - 27 February 2014



Well Integrity is 'the application of technical, operational and organizational solutions to Reduce risk of uncontrolled release of formation fluids throughout the life cycle of a well' (NORSOK D-010).

DATE:
Tues 25 – Thurs 27 Feb 2014

LOCATION:
Perth, Western Australia

INSTRUCTOR:
Colin Stuart
Managing & Technical Director

- 33 years of experience
- Fellow of Institute of Mechanical Engineers
- Specialist in well control support, risk management, integrity management and complex well design including HPHT
- NOPSEMA Expert Witness for the Montara Blowout Investigation

COURSE TESTIMONIALS:
"This course reignited my passion for engineering."
Santos Drilling Engineer

"The best instructor I have seen in my career"
Production Supervisor – TOF Urumqi 2012

"The best course I have been on – I want MORE!! The course has given me a new enthusiasm/passion to expand my knowledge."
Well Integrity Engineer

RELEVANT COMPANY EXPERIENCE:

- Provision of well integrity expertise to operators and regulators (including NOPSEMA and NZ regulator)
- Failure investigation and analysis, including blowouts
- Developers of barrier integrity management solutions
- Well construction and completion design
- HPHT services

Course Overview

Well integrity is of the utmost importance for personnel safety, environmental protection and risk management. As such there is an ever increasing need for raising awareness and managing risks for oil and gas operators and relative government bodies. This applies both to well construction and production operations.

Upon completion, successful attendees will:

- Understand how different stages of well operations, from design and construction to production, impact well integrity
- Learn to manage production well integrity to maximise well productivity and minimise asset risk
- Be able to identify and quantify the risks associated with different types of well integrity issues
- Learn different techniques to reduce risks
- Be able to define procedures, roles and responsibilities of personnel involved in the well lifecycle
- Understand well integrity management systems
- Communicate effectively and efficiently with your organization on well integrity issues

Who Should Attend?

- Technical Directors
- Asset Managers
- Petroleum Engineers
- Well Integrity Engineers
- Production Technologists
- Production Personnel (OIMs, Production Operators, Maintenance Supervisors)
- Drilling and Well Servicing Personnel (Drilling Managers, Well Engineers, Completion and Well Service Engineers, Drilling Supervisors)
- Regulators
- Service Companies

For bookings/enquiries/cost, contact:

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<http://www.stuartwright.com.sg/>
EARLY BIRD DISCOUNT BEFORE 30 JAN 2014

Course Schedule

DAY 1: Learn the definitions, principles and processes associated with managing well integrity

Introduction to well integrity

- Definitions
- Well integrity throughout the lifecycle
- International well integrity standards (incl. NORSOK D-010, API RP 90, ISO/TS 16530-2)
- Failure examples

Well barriers

- Definitions
- Well barrier elements
- Well barriers in design and construction

DAY 2: Understand importance of well barriers throughout the well lifecycle. Understand key elements of an effective well integrity management system.

Well Barriers (continued)

- Well barriers in production
 - Well barriers in suspension
 - Well barriers in abandonment
- Well Integrity Management Systems (WIMS)
- Roles and responsibilities
 - Risk assessment
 - Well Operating Guidelines
 - Define operating envelope of a well
 - Understand the concept of MOASP, MAASP, LOASP
 - Flow assurance considerations
 - Annulus pressure trend analysis
 - Well failure model

DAY 3: Apply knowledge by participating in a failure investigation. Understand unusual well control techniques.

- Failure investigation (Bow-Tie Risk Assessment)
 - Overview of methodology
 - Workshop
- Non standard well control techniques
- Well control diagnostics
- Blowout case studies incl. Gulf of Mexico (Macondo) and offshore Australia

During the course, attendees will participate in workshops and round table discussions, using real examples, to maximize learning outcomes.