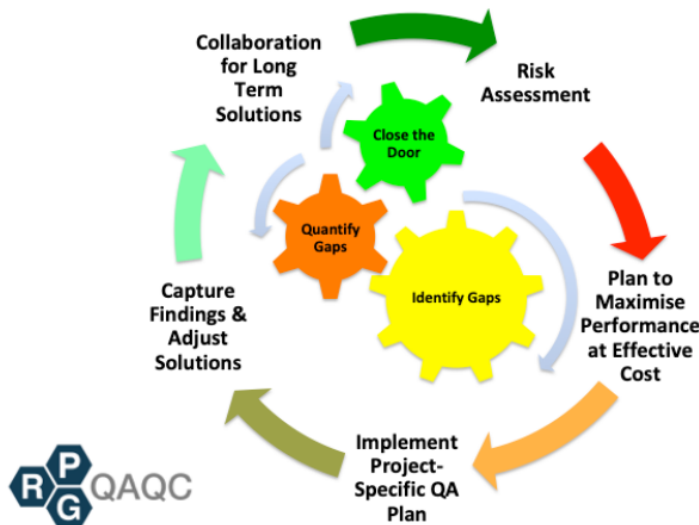




QAQC

Quality Insurance and Quality Control

THE RPG iQAQC PROCESS



We call it intelligent Quality Assurance Quality Control – “iQAQC”
Not the same old game plan from another era.

Quality Assurance & Quality Control

RPG QAQC principles and staff are involved in quality assurance and quality control services of drilling and completion at all levels of QMS development, implementation, execution and reporting.

- Remote, web-based iQAQC process that spans the global manufacturing, inspection, assembly and testing functions in vendor shops, virtually without human contact.
- Developing, coordinating, directing and implementing field and shop QAQC operations for over 20 years.
- Collaboration with well engineering and operations teams to create cost effective quality programs for onshore and offshore drilling and completion projects.
- Creation of inspection specifications such as the conversion of the Shell Inspection Spec 8002-001 in 2000 into a recognized proprietary spec.
- Development of manufacturing specifications, specifically the transition of Shell SQAIR in 2001 and converting it into a recognized international specification.
- Managing and coordinating QAQC operations and performing QAQC since 1997.
- Online QAQC equipment tracking and reporting systems.
- Online vendor QA call out and scheduling system.

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MANUFACTURING

RPUK staff have been involved in verification of manufacturing facilities and components over the past 20 years and have performed design reviews for a variety of clients and component types.

DRILL STRING DESIGN

RPG principles and staff have been recognized as global leaders in drill string design, well-specific analysis, failure investigations and optimization of drill strings since 1988.

ONLINE SYSTEM

RPG MUT App

Allows engineers to calculate make up torques for non-standard components such as where the two sides of the connection have different yield strengths. It is currently in use by a number of engineers.

RPG RFI App

Provides vendors and wells team members with a contemporaneous QA call-out and tracking system to align all stakeholders information on QA status.

RPG QAQC Management Systems

Allows vendors, QAQC technicians and drilling engineers to upload data sheets, inspection reports and material certification to an online system on a project basis. These can then be tagged for QAQC review and un-tagged once accepted or marked for further action.

Our proprietary **WikiWell®** is a very large online members only website, covering many aspects of Drilling, Completions, Well Intervention, and Production Technology. It is the type of material that is invaluable for drilling and completions engineers in their career development process.

TRAINING COURSES

to expand staff knowledge and skills

- **Drill String Design** - All aspects of drill string design theory and hand calculation capability.
- **Casing Design for Well Engineers** - Uniaxial design by hand with understanding of tri-axial loads
- **Tubing Design for Well Engineers** - Uniaxial design by hand with understanding of tri-axial loads
- **Well Control for Well Engineers** - A level 5 type theory course covering both string and annulus gas pressure calculations.
- **Completions and Tubing Design Workshop** - Aimed at completions engineers - a basic design and selection course.
- **Inspection of Drill Strings and Specialty Tools** - Focused upon Standard DS-1 Vols. 3 & 4 for inspectors and quality assurance personnel

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