

# Drill String Design Course

**Fearnley Procter, Inc.**  
A Fearnley Procter Group Company  
Quality Control - Process Assurance - Engineering - Training Specialists



## Date

March 23-24, 2011

## Location

Fearnley Procter Inc.  
1001 S. Dairy Ashford  
Suite #210  
Houston, TX 77077

## Cost

\$2,016

\* Early Registration before March 4, 2011 = \$1,814.40 (10% discount)

## Course handouts

NS-14™ Drill String  
Design Manual

### Course Content:

- Components Design: Drill Pipe, Heavyweight Drill Pipe, Drill Collar
- Properties: Materials, Yield Strength, Grade, Class
- Drilling Constraints: Max WOB, Max String Length, Slip Crush
- WOB in vertical and deviated wells
- Buckling in deviated and curving well bores
- Tension = 0 point
- Neutral point for buckling
- String stretch calculations
- Back-off theory for vertical and deviated wells

### Aimed At:

Trainee Engineers, Graduate Engineers, Drilling Engineers, Well Planning Engineers, Drilling Supervisors, Tubular Engineers

### Course Overview:

Day one of the course introduces basic drill string components, selection of those components and progresses to design issues such as Max WOB, Max Drilling Depth, BSR, MUT and buckling with a view to improving understanding in these areas and ability to calculate and understand Drill String Design for vertical wells.

Day two covers advanced topics including deviated and horizontal drill string design issues. Multiple calculations and practical examples are covered.

### Course Pre-Qualification:

Although there are no specific requirements for attendance on this course, the course is technical in nature and intended for those who have a significant amount of experience on the rig site or have formal qualification in engineering.

### Qualification:

A certificate of completion is awarded upon successful completion.

For booking on these or any of our wide range of training courses, contact:

### Fearnley Procter

1001 S. Dairy Ashford, Suite 210, Houston, TX 77077  
Tel.: +1 281-870-1333 E-mail: [cathy@fearnleyprocterinc.com](mailto:cathy@fearnleyprocterinc.com)  
Website: <http://www.forumfearnleyprocter.co.uk/registerinc.htm>  
Hotel recommendations available upon request.



# Course Instructor & Venue



**Ray Procter**  
Group Technical  
Director

## Ray Procter

With over 20 years experience in the oil industry mostly as a Specialist Drilling Engineer, Ray has specialised in solving downhole problems including drill string failure prevention, stuckpipe and stuck coil tubing. His technical authoring portfolio includes creating BP Stuckpipe Knowledge Base CD-ROM package, a Drilling Engineering Document System for Premier Oil, the Shell ABC of Stuckpipe series and parts of the Shell Distance Learning Package for Well Engineers.

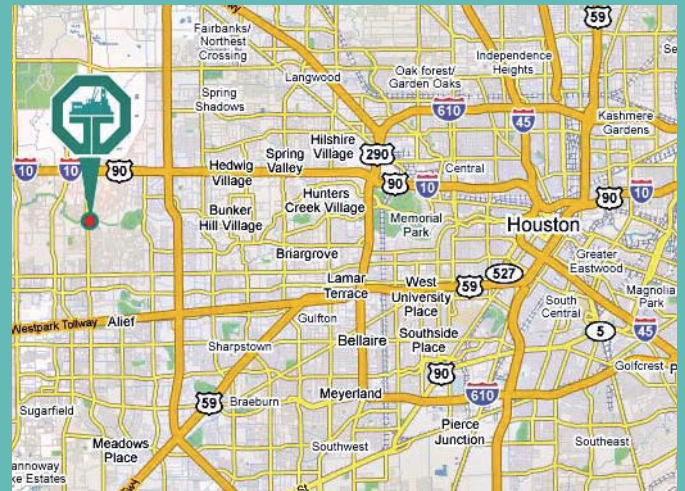
As Technical Director at Fearnley Procter, Ray performs investigations, audits and internal reviews for major operators in areas of stuckpipe, stuck casing, drill string failures and other downhole problems.



**Fearnley Procter, Inc.**  
Office and Training Suites

## Fearnley Procter, Inc.

Situated 30 minutes West of downtown Houston, Fearnley Procter, Inc. provides training and specialist services to the OCTG industry.



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Website: <http://www.forumfearnleyprocter.co.uk/registerinc.htm>  
Hotel recommendations available upon request.