

# Well, Reservoir and Facility Management

## INTRODUCTION

- Well, Reservoir and Facility Management aims to maximise production and recovery in a safe, sustainable, cost effective manner. This Well, Reservoir and Facility Management training course will help you to maximise the value from your field, by finding, maturing and executing opportunities, at low cost per barrel. The biggest prize for most operating companies is to maximise the value from their existing assets. High field decline wipes millions of barrels from the reserves as well as significant loss in revenues. So prudent management of the reservoir and continuous production system optimisation are critical.
- Well, Reservoir and Facility Management is a mindset where dedicated teams work together to unlock potential, manage the reservoir and ensure that reliable wells and facilities deliver the maximum potential, every day. This intensive Oil & Gas Technology training course will introduce you to the tools that you need to know where your oil and gas reserves are, maximise well delivery, both production and injection, and minimise downtime and losses. The importance of Well, Reservoir and Facility Management Strategy and Plan, with regular reviews, a choke model diagram and a streamlined Opportunity Maturation Process will be demonstrated. Production System Optimisation is also a key component of the course. At the end of this Well, Reservoir and Facility Management training course, the participants will have the tools to maximise the value from your field.

This training course will highlight:

- Well, Reservoir and Facility Management
- Well, Reservoir and Facility Management Value Loop & Structured Reviews
- Production System Optimisation
- Opportunity Maturation Process
- Well, Reservoir and Facility Management Strategy and Plan

## OBJECTIVES

By the end of this training course, participants will learn to:

- Explain what Well, Reservoir and Facility Management
- Describe the components of the Well, Reservoir and Facility Management Value Loop
- Deliver structured reviews to identify opportunities
- Carry-out Production System Optimisation
- Describe Opportunity Maturation Process
- Explain how to prepare a Well, Reservoir and Facility Management Strategy and Plan

## TRAINING METHODOLOGY

- Participants will engage in a highly interactive learning experience, with a blend of class room learning, exercises, group work and discussion. The instructor will apply a range of proven adult learning teaching and facilitation techniques, which will address participants' learning preference styles. Active participation is essential, to share experiences and expertise of the instructor, as well as the participants. We can all learn from each other.

## ORGANISATIONAL IMPACT

By attending this Well, Reservoir and Facility Management training course, the organisation will develop staff that can apply Well, Reservoir and Facility Management, maximising production and reserves, in a safe, sustainable and cost-effective manner. The organisation will benefit from:

- Improved Well, Reservoir and Facility Management to maximise production and recovery
- Better understanding of how the Well, Reservoir and Facility Management Value Loop works
- Skilled and structured reviews to identify opportunities
- Continuous Production System Optimisation
- A streamlined Opportunity Maturation Process
- A clear Well, Reservoir and Facility Management Strategy and Plan

## PERSONAL IMPACT

- Implement Well, Reservoir and Facility Management to maximise production and recovery
- Describe how the WRFM Value Loop works
- Carry-out structured reviews to identify opportunities
- Apply Production System Optimisation
- Develop a streamlined Opportunity Maturation Process
- Prepare a clear WRFM Strategy and Plan

## WHO SHOULD ATTEND?

- This Well, Reservoir and Facility Management course is designed for all staff involved with Well, Reservoir and Facility Management. This includes Production Technologists, Process Engineers, Production / Operations staff and other disciplines who wish to broaden their skill base, to include Integrated Sand Management.

This training course is suitable to a wide range of professionals and will greatly benefit:

- All Subsurface Staff (Production Technologists, Reservoir Engineers, Geoscientists & Petrophysicists)
- Process Engineers and Surface Engineers (Mechanical, Pipeline, Maintenance and Integrity staff)
- Well Engineers
- Drilling Engineers
- Well Services personnel
- Production / Operations Engineers
- Production Chemists
- Managers who need to manage Well, Reservoir and Facility Management

## Course Outline

### Introduction to WRFM and the Value Loop

- HSE (Safety Moment)
- WRFM Quiz
- Overview of Well, Reservoir and Facility Management
- WRFM Value Loop
- Key Components and Structure of WRFM

### Daily Production Optimisation

- HSE (Safety Moment)
- Overview of Daily Production Optimisation
- Data at Your Finger Tips
- Having the Right Models for Analysis
- Daily Production Optimisation Review
- Daily Production Optimisation Exercise

### Production System Optimisation

- HSE (Safety Moment)
- Overview of Production System Optimisation
- Surveillance and Monitoring Tools
- PSO Review
- Production System Optimisation Exercise

## Well & Pattern Review

- HSE (Safety Moment)
- Preparation for Well & Pattern Review
- Well & Pattern Review
- Opportunity Maturation Process
- Well & Pattern Review Exercise

## WRFM Strategy and Plan and Participants Challenges

- HSE (Safety Moment)
- WRFM Strategy and Plan
- Practical Examples of WRFM
- Produce the Limit (PtL)
- Participants WRFM Challenges