

Onshore Pipeline Engineering Course

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IBC

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WELCOME

To the 32nd Onshore Pipeline Engineering Course

- **Introductions**
- **Health and Safety**
- **Format of lectures**
- **Requests to course members**
- **Feedback**
- **Outline of course**

Introduction

- **Matthew Guite**
- **History –**
- **Pipeline Engineer in Operations and then design for pipeline and storage company including pump stations.**
- **Design engineer / Project Manager with JPKenny for ~20 yrs – Multiple projects world wide**
- **Director Pipelines at Theon Ltd**
- **Pipeline Consultant at MRG Consulting Ltd**

Health and Safety

- **Fire Exits Alarms**
- **Breaks for drinks / lunch**
- **Comfort / seating / temperature / illness**

Format of lectures and issues addressed

- **Lectures are an overview by experienced engineers and consultants in the industry**
- **Variety of companies**
- **Address most common issues affecting onshore / land pipeline design, materials, construction and operation / maintenance.**

Requests to course members

- ***Be on time***
- **Mobile (cell) phones / blackberries on silent and out of view - please access at breaks only**
- **Try to put the “day job” to one side**
- **Complete feedback forms daily**
- **Ask Questions / Engage with lecturers**
- **Learn something new**

Day one (Tues)

- **Start 0900**
- **Pipeline projects and pipeline routing**
- **Quick fire introductions - Delegates**
- **Pipeline engineering introduction & project stages - MG**
- **Practical Pipeline routing - MG**
- **Advanced remote sensing techniques - ND**
- **Advanced pipeline routing – ND**
- **Identifying and managing environmental issues – JS**
- **Exercise – Developing an ESIA schedule – JS (New)**
- **Working with Drones – JM (New)**
- **Onshore Construction principles - MG**
- **Course welcome function (1830) - Everyone**

Day two (Wed)

- **Start 0930**
- **Engineering and Valves**
- **Hydraulics and system design - MG**
- **Design and design codes - MG**
- **Design Exercise - MG**
- **Compressors pumps and pig traps - MG**
- **Stress Analysis – MG**
- **Alternative pipeline materials - MG**
- **Valve types and remote monitoring - DA**
- **Course dinner (1830) – Everyone (included)**

Day three (Thurs)

- **Start 0915**
- **Integrity Assessment and Corrosion**
- **Pipeline failures and integrity management – AD**
- **Integrity Assessment of pipelines – AD**
- **Overview risk assessment and HAZID - TW, NG**
- **Internal Corrosion and Mitigation - JD**
- **External Corrosion and Mitigation – JD**
- **Practical exercise corrosion mitigation - JD**
- **Finish 1700**

Day four (Friday)

- **Start 0915**
- **Materials and Welding**
- **Line pipe specification – AD**
- **Line pipe manufacture - AD**
- **Pipeline Welding and NDT – AD**
- **Automatic UT - AD**
- **Finish 1600**

Summary

- **Be on time**
- **Avoid distractions**
- **Ask Questions**
- **Tues - Introductions and Pipeline Routing / Construction / Environmental**
- **Wed – Engineering design and Valves**
- **Thurs – Integrity assessment and Corrosion**
- **Fri – Materials and Welding**

Summary – Learn something new

"When you talk, you are only repeating what you already know; but when you listen, you may learn something new."

Dalai Lama

Introductions

Quick fire Exchange

- **First Name**
- **Company & Country**
- **Experience**
- **Types of pipelines familiar with**
- **Key issues to find out**

The background of the slide is an abstract, swirling pattern in shades of blue and black. The pattern consists of concentric, wavy lines that create a sense of depth and movement, resembling a vortex or a stylized eye. The colors transition from dark blue/black on the left to a lighter, glowing blue on the right.

Thank You

Let's get started