

Training Title

FUNDAMENTALS OF PIPELINE DESIGN AND HYDRAULIC MODELING

Training Duration

5 days

Training Date

REF	Fundamentals Of Pipeline				
ME042	Design and Hydraulic Modeling	5	06-10 May	\$4,250	Dubai, UAE

In any of the 5 star hotels. The exact venue will be informed once finalized.

Training Fees

- **4,250 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch**

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

Language: English

COURSE DESCRIPTION

This course provides an overview of a new pipeline hydraulics modeling capability that eliminates the need to employ separate third-party tools for pipeline hydraulics. There are many benefits to modeling the entire gathering and production system (be it offshore, onshore, topside, etc.) within one tool, including not only being able to optimize the design from a capital and energy perspective, but also ensure the overall safety of the system

TARGET AUDIENCE

Engineers new to the pipeline industry or those seeking practical knowledge. Also for electrical and civil engineers working on pipelines. Participants must be able to perform engineering-level computations.

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TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- **30% Lectures**

- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE CONTENTS

Need for Accurate Modeling of Hydraulics

Overview of Pipeline Modeling Solutions

The Basics of Flow Simulation

- Flow Correlations
- Dynamic Modeling
- Flow Assurance

Aspen HYSYS V8 for Usability

Aspen Pipe Segment Model

Aspen HYSYS Hydraulics Subflowsheet

Uses of Aspen HYSYS Hydraulics Subflowsheet

The Bigger Picture

Conclusion

- Case Studies, Last Day Review, Discussions & Pre & Post Assessments will be carried out.

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