

Pipeline Project Management – Practices & Procedures

Overview Training for Engineers and Managers

Why: The demand for pipeline engineers and operating managers worldwide far exceeds the supply of available trained and experienced personnel. This demand is expected to increase as new systems are planned and existing facilities expand along with changes in industry codes and construction practices.

The three segment course addresses the activities requiring management in conceiving, defining, budgeting, planning, and delivering the elements of a completed pipeline system or component project. The completed elements range from the constructed physical features to records of performance, costs, and compliance with the requirements set by the project owner and involved public entities.

Not including construction, upwards to twenty or more categories of activities may be in progress between conception and completion of a project to modify an existing pipeline facility, or to create a new integrated system. The course is designed for engineers and managers who would benefit from comprehension of the work and management involved in each activity and their interdependencies.

The series of courses will introduce you to these challenges and how they affect both the design and operation of your pipelines. After completing this series of courses you will have an understanding of the procedures and practices required in managing a pipeline project from start to finish.

Where: Technical Toolboxes, Inc. offices located at 3801 Kirby Drive, 5th Floor, Houston, TX 77098. (map to be provided)

Duration: All sessions in Houston start at 8:15 AM.

Price: \$1,100 per student for 3 days

Instructor: Wayne Wildenrad, BSCE, Purdue University; MBA University of Wisconsin ; Texas Professional Engineer #33030, Texas Registration to offer and perform engineering services #F-2773. Forty- eight (48) years global experience in the design, engineering and project management services for oil, gas and refined product systems and components. In addition, Mr. Wildenrad was

an Instructor, Economics of Pipeline Transportation at the University of Texas School of Pipeline Technology.

Course Agenda/Outline

Session 1:

Managing the Project Conception, Preliminary Design and Approval

1. Introduction
2. What Is Notable About A Pipeline Project
3. A Commitment Based On A Report
4. Steps In Making The Report
5. Managing The Steps
 - Pre-steps
 - Understanding the reason for the project
 - Establishing the criteria for the design
 - Identifying feasible design options
 - Researching what is needed
 - Describing the major features
 - Estimating the investment costs
 - Estimating annual expenses
 - Forecasting risk & return on the investment
 - Developing a project time frame
 - Drafting, editing and presenting the report
 - Staying current on preparation charges
6. Exercises In Evaluating Risk And Potential Profitability
7. Another Look at 36 to 49 Year Old Projects During Construction and Year 2007

Session 2:

Managing the Basic Design and Other Early Project Deliverables

1. Introduction
2. Owners' Prospective And Involvement
3. The Early Project Deliverables
4. Principle and Support Personnel
5. Establishing The Basic Design for Systems, Lines, Stations, Terminals, Controls
6. Preparing The Budget
 - Practices and difficulties
 - Owner overhead costs
 - Direct costs
 - Indirect Costs and Contingency
7. Preparing The Detailed Schedule
8. Obtaining Public Authorization
9. Procedures For Approvals

10. Forming Execution Plans

- Factors and risks that will shape the plans
- Activities to be planned and potential participants
 - Management, accounting and Administration
 - Obtaining land, ROW and permits
 - Engineering:
 - Surveys and site investigations
 - Detailed design
 - Procurement of equipment, materials and services
 - Field office
 - Receiving equipment and materials
 - Overseeing and supporting construction
 - Training, commissioning and start-up
 - Assuring quality and compliance
 - Project ending

11. Cash Flow Forecasts and Recap

Session 3

Managing The Remaining Deliverables Until Completion Of The Project

1. Introduction to The Remaining Deliverables and Project Ending Deliverables
2. Managing The Documents That Make Up The Ending Deliverables
3. Documents By Activity of the Remaining Stages
 - Management, accounting, and administration
 - Obtaining land, ROW and permits
 - Engineering
 - Surveys and site investigations
 - Initial detailed design
 - Preparations for construction
 - Assembling operating and maintenance manuals
 - Procurement of equipment, materials and services
 - Field operations
 - Field office administration
 - Receiving equipment and materials
 - Field engineering
 - Construction inspection
 - ROW and permit releases
 - Commissioning and start-up
 - Training
 - Assuring quality and compliance
 - Project ending activities

4. Review



Please complete the attached form and fax to TTI at 713-630-0560

Course Cost: \$1100 per student

**Course Date: Session 1 - August 10th, 2010
Session 2 - August 11th, 2010
Session 3 - August 12th, 2010**

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Company _____

Address _____

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Payment by Credit Card

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*** By signing above I commit to paying the course fee when invoiced**

Terms and conditions: One registration is required per person. Upon receipt of your above registration, an invoice will be generated for Payment. Payment is due 30 days from receipt of invoice.