



Onshore Pipeline Facilities - Design, Construction and Operations - PL-42

COURSE

About the Course

Successful onshore pipeline businesses require personnel competent in fully integrated approaches to evaluation, planning, design, construction, operations, and asset integrity management. This intensive, 5-day foundation level course explores best practices for developing and maintaining pipeline systems that maximize life cycle reliability; employee, public, and environmental safety; and cost effectiveness. Design and team exercises are an integral part of this course.

"Everything was well organized. The subject itself was very interesting to me and applicable to my job." - Design Engineer, Kazakhstan

"Well rounded course material. We covered what seems like all different areas of pipeline design, including areas I hadn't thought about such as ROWs." - Logistics Projects Engineer, United States

Target Audience

Pipeline project managers and engineers, operations and maintenance supervisors, regulatory compliance personnel, and other technical professionals with 1-3 years of experience in natural gas, crude oil, refined petroleum products, LPGs, NGL, chemical, carbon dioxide pipeline engineering, construction, operations, or maintenance. This course is intended for participants needing a broad understanding of the planning, development, construction, start-up, and operating and asset integrity management of onshore pipelines.

You Will Learn

Participants will learn how to:

- Apply regulatory codes, standards, and industry guidelines (API and others) that control and guide the permitting, design, construction, operation, and maintenance of pipeline facilities
- Apply mechanical and physical principles to pipeline design, hydraulics, and material selection
- Apply mechanical and physical principles to pump and compressor selection
- Describe the important factors in station design
- Describe the importance of route selection and hydraulics for long term profitability, reliability, and safety
- Identify special design and construction challenges of onshore pipeline systems
- Describe methods of river and road crossings, HDD crossings, and bores
- Identify the principle interfaces and potential interrelationships of pipeline facilities, such as pump stations and terminals, on design and operations

- Apply operational and maintenance tools and procedures, including system monitoring and control, leak detection, corrosion control, custody measurement and quality control, asset integrity management, and emergency response planning

Course Content

- Regulations and code compliance requirements
- Pipeline survey and routing
- Mechanical and hydraulic design
- Proper system sizing and design
- Equipment selection criteria
- Facilities sites and design concern
- Construction methods and contracting approaches
- Operations and asset integrity management

Product Details

Categories: [Midstream](#)

Disciplines: [Pipeline Engineering](#)

Levels: [Foundation](#)

Product Type: [Course](#)

Formats Available: [In-Classroom](#) [Virtual](#)

Instructors: [Stuart Watson](#) [Josh Gilad](#) [PetroSkills Specialist](#)

In-Classroom Format

24 Jun '24	28 Jun '24	-		Course		In-Classroom (in Houston)	\$4,710.00
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2 Sep '24	6 Sep '24	-		Course		In-Classroom (in Dubai)	\$5,825.00
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Virtual Format

28 Oct '24	8 Nov '24	-		Course		Virtual (Houston UTC)	\$4,070.00
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