



## 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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