OUR COURSES

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Process Plant Design

Course Info

The design of process plant is a difficult, multidisciplinary, and complex endeavour. Process plant design skills are truly relevant and in increasing demand in the industry. To design a process plant such as petrochemical plants require practical skills and knowledge of how different sections of the plant work and fit together.

In this course, students will learn about:

- Process plant design workflow
- How to prepare process plant layout
- How to prepare general equipment arrangement
- How to route process plant piping
- How to produce 3D design of the plant
- How to produce orthographic drawings of the plant
- How to prepare detail materials take off list.
- Different design codes and standards that govern process plant design.

Api-650 Aboveground Storage Tanks (ASTs)

Course Info

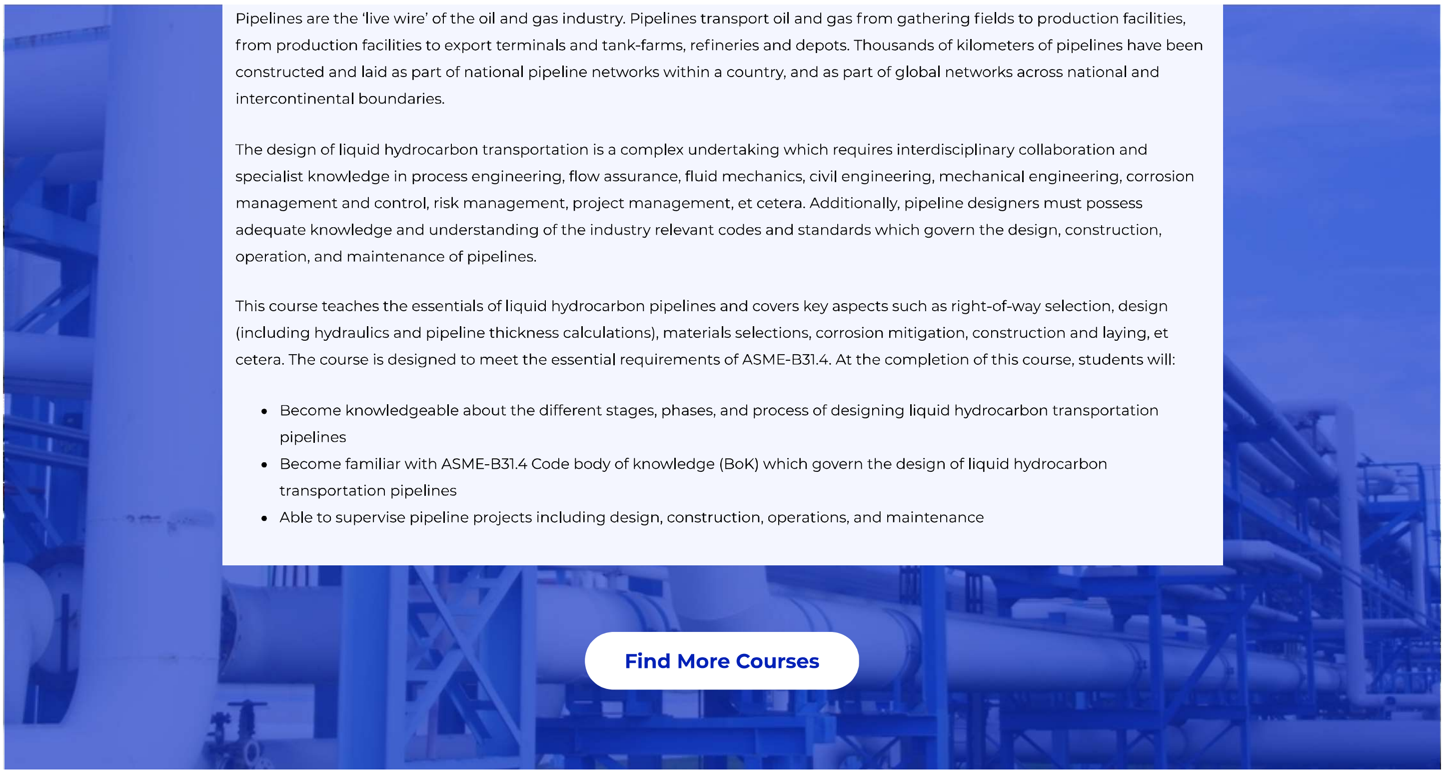
Aboveground Storage Tanks (ASTs) are static equipment that are used for bulk storage of materials such as stabilized crude oil, refined petroleum products, chemicals, water, et cetera. ASTs find applications in crude oil production facilities (such as flow stations), refineries and petrochemical plants, chemical plants, water and waste-water treatment facilities, sewage treatment facilities, power plants, et cetera.

Because of the high risk associated with their failures, the design, fabrication and installation, operation, and maintenance of ASTs must comply with strict regulatory standards and codes to ensure safety for operations personnel and the environment. This course teaches the essentials of ASTs, and API-650 Code which govern its design and construction. At the end of the course, students will

- Become familiar with technical details of ASTs including roofs, shell, bottoms, and appurtenances
- Become familiar and competent in API-650 body of knowledge (BoK) at the level required to sit for API certification exam
- Able to design ASTs including performing design calculations
- Able to supervise design activities, construction, operation and maintenance of ASTs
- Able to use the industry standard software to design and detail ASTs

Essentials of Liquid Hydrocarbon Transportation Pipeline according to Asme-B31.4

Course Info



Pipelines are the ‘live wire’ of the oil and gas industry. Pipelines transport oil and gas from gathering fields to production facilities, from production facilities to export terminals and tank-farms, refineries and depots. Thousands of kilometers of pipelines have been constructed and laid as part of national pipeline networks within a country, and as part of global networks across national and intercontinental boundaries.

The design of liquid hydrocarbon transportation is a complex undertaking which requires interdisciplinary collaboration and specialist knowledge in process engineering, flow assurance, fluid mechanics, civil engineering, mechanical engineering, corrosion management and control, risk management, project management, et cetera. Additionally, pipeline designers must possess adequate knowledge and understanding of the industry relevant codes and standards which govern the design, construction, operation, and maintenance of pipelines.

This course teaches the essentials of liquid hydrocarbon pipelines and covers key aspects such as right-of-way selection, design (including hydraulics and pipeline thickness calculations), materials selections, corrosion mitigation, construction and laying, et cetera. The course is designed to meet the essential requirements of ASME-B31.4. At the completion of this course, students will:

- Become knowledgeable about the different stages, phases, and process of designing liquid hydrocarbon transportation pipelines
- Become familiar with ASME-B31.4 Code body of knowledge (BoK) which govern the design of liquid hydrocarbon transportation pipelines
- Able to supervise pipeline projects including design, construction, operations, and maintenance

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Experts in transferring industry expertise with years of experience and several multinational partnerships

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