THE CHEMICAL ENGINEERING MAJOR

Process Utility Systems

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BTS
Training & Consultancy

Process Utility Systems

Who Should Attend?

Facility Engineers or engineers new to utility systems who are responsible for designing, operating and maintaining utility systems in oil and gas processing and related facilities. Most operations and planning activities depend on a fundamental knowledge of utility systems. This important subject is frequently overlooked however it is vital to successful oil and gas operations. Attending this course will assist participants in developing a broad background in utility systems.

Description:

This 5 day course will provide an overview of the various Utility Systems, key selection considerations and how they are integrated into onshore and offshore oil and gas facilities. Individuals will develop a basic understanding of the wide variety of utility systems and components and how they integrate with the process facilities and overall operation. System selection, relative costs and other managerial decisions pertinent to utility operations are covered. Exercises are used to identify utility consumers, summarize utility requirements, consider high level utility systems options, and select the most energy efficient alternatives from an onshore and offshore perspective.

Objectives:

- To list the various options in selecting utility systems
- How to evaluate and select systems based on key criteria and considerations
- Key site selection considerations
- How to efficiently provide utilities
- Utilities management issues

Course Content:

- Process heating systems
    - Steam
    - Hot oil
    - Glycol and water
- Process cooling systems
    - Indirect- cooling water
    - Direct-seawater
- Process drains – open and closed
- Refrigeration
- Power generation and distribution
- Instrument/Plant air and breathing air
- Fresh & potable water
- Fuel systems
    - Natural gas
    - Diesel

Firewater

- Inert gas systems
- Utilities energy considerations
- Utilities management issues