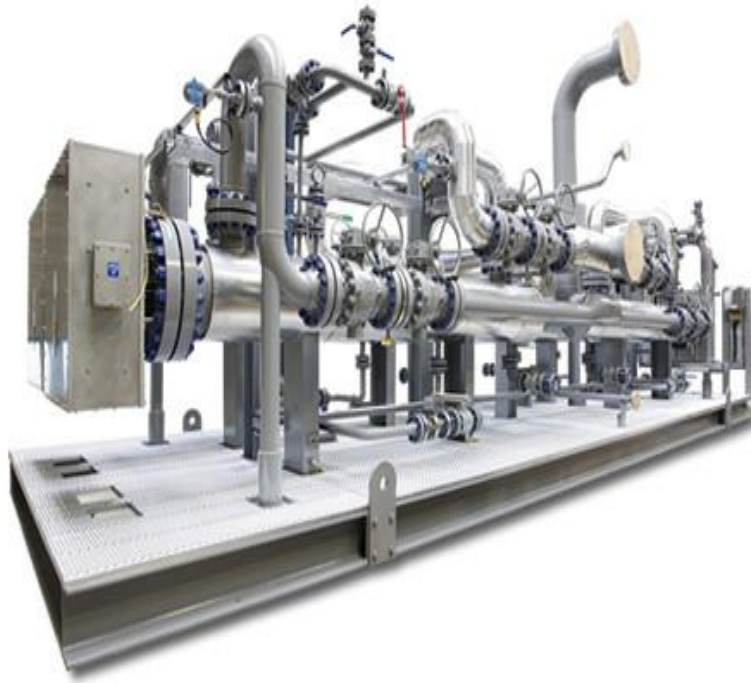




Gas Systems and Equipment

Course Introduction:

This course provides an essential foundation for understanding the principles, components, and operations of gas systems and associated equipment. Participants will learn about the various types of gas systems, their applications, and the equipment used in gas processing and distribution. This course is designed for individuals seeking to gain fundamental knowledge in gas systems.

Course Objectives:

Upon the successful completion of this course, each participant will be able to:

- Understand the basic principles of gas systems and their significance.
 - Identify key components and equipment used in gas systems.
 - Describe the various types of gas systems and their applications.
 - Recognize safety considerations and best practices in gas systems operation.
 - Develop foundational skills for further study or career in gas engineering and technology.
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Who Should Attend?

This course is designed for new engineers and technicians in the gas industry, operations and maintenance personnel seeking foundational knowledge, Operations and maintenance personnel seeking foundational knowledge, safety and compliance professionals in gas processing and distribution.

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International Centre For Training & Development

Course Outline:

Day 1: Introduction to Gas Systems

- Overview of Gas Systems and Their Importance
- Types of Gases and Their Properties
- Basic Principles of Gas Behavior
- Applications of Gas Systems in Industry

Day 2: Components of Gas Systems

- Overview of Key Components (e.g., pipelines, valves, compressors)
- Function and Operation of Each Component
- Introduction to Gas Processing Equipment
- Case Studies: Component Selection and Sizing

Day 3: Gas System Design and Configuration

- Basic Principles of Gas System Design
 - Process Flow Diagrams and System Layout
 - Practical Exercises: Designing Simple Gas Systems
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Day 4: Safety and Regulatory Considerations

- Safety Standards and Best Practices in Gas Systems
 - Hazard Identification and Risk Assessment
 - Emergency Response Procedures
 - Regulatory Requirements for Gas Systems
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Day 5: Operational Best Practices and Future Trends

- Best Practices for Operation and Maintenance of Gas Systems
 - Troubleshooting Common Issues in Gas Systems
 - Future Trends in Gas Technology and Sustainability
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Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Fees:

To be advised as per course locations. This rate includes participant's manual, Hand-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session

