MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

BASICS OF GAS PROCESSING

"Gain foundational knowledge of gas processing operations, technologies, and safety practices"

Schedule

Date	Venue	Fees (Online)
24 – 25 Nov 2025	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Gas processing is a critical aspect of the oil and gas industry, ensuring the safe and efficient extraction, treatment, and transportation of natural gas and its by-products. This 2-day online training introduces participants to the fundamentals of gas processing, including key processes, equipment, and operational practices. Attendees will gain a clear understanding of gas treatment, separation, and purification techniques used in industrial operations.

The program blends theoretical concepts with practical examples, enabling participants to understand process flows, identify operational challenges, and apply best practices for safe and efficient gas processing. By the end of the course, participants will have a solid foundation to support operations, engineering, and technical decision-making in gas processing facilities.

Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals of natural gas composition and properties.
- Explain key gas processing operations, including separation, dehydration, and sweetening.
- Identify the equipment and technologies used in gas processing.
- Understand safety, operational, and environmental considerations.
- Apply basic problem-solving techniques in gas processing operations.

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Why Attend

- Gain foundational knowledge of gas processing operations and technologies.
- Learn key process flows and equipment used in the industry.
- Improve operational awareness and safety compliance.
- Network with peers and industry professionals.
- Acquire practical knowledge applicable to engineering and operations roles.

Target Audience

This program is designed for:

- Entry-level engineers, operators, and technicians in the oil & gas industry.
- Professionals involved in natural gas production and processing.
- Maintenance and operations staff seeking process understanding.
- Environmental and safety personnel in gas processing facilities.

Individual Benefits

Key competencies that will be developed include:

- Understanding gas composition, properties, and processing principles.
- Familiarity with gas processing equipment and operations.
- Awareness of safety and environmental considerations.
- Ability to interpret process flows and operational data.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved operational efficiency and safety in gas processing facilities.
- Enhanced understanding of process optimization and troubleshooting.
- Better compliance with safety and environmental regulations.
- Increased technical competency of operational and engineering teams.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Fundamentals of gas processing and key operational principles.
- Case Studies – Examples of gas processing applications and operational challenges.
- Workshops – Interactive exercises on process flows, equipment operation, and problem-solving.
- Peer Exchange – Group discussions on operational best practices and lessons learned.
- Tools – Flow diagrams, process templates, and checklists for gas processing operations.

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Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 5:00 PM Daily Format: 3–4 Learning Modules | Coffee Breaks & Lunch included

Day 1: Fundamentals of Gas Processing (09:00 – 04:00)

Module 1: Introduction to Natural Gas and Composition (09:00 – 11:00)

- Natural gas properties and components.
- Gas processing overview and importance.
- Key safety and environmental considerations.

Module 2: Gas Separation and Treatment (11:15 – 01:00)

- Separation of liquids, impurities, and contaminants.
- Dehydration and removal of acid gases.

Module 3: Gas Processing Equipment (02:00 – 04:00)

- Overview of compressors, separators, scrubbers, and heat exchangers.
- Operational best practices and maintenance considerations.

Day 2: Operational Applications and Safety (09:00 – 04:00)

Module 4: Gas Sweetening and Purification (09:00 – 11:00)

- Techniques for removing CO_2, H_2S, and other impurities.
- Process optimization considerations.

Module 5: Safety and Environmental Compliance (11:15 – 01:00)

- Operational hazards and risk management.
- Environmental regulations and compliance strategies.

Module 6: Case Studies and Practical Applications (02:00 – 04:00)

- Real-world examples of gas processing operations.
- Problem-solving exercises and process optimization scenarios.

Certification

Participants will receive a Certificate of Completion in Basics of Gas Processing, validating their foundational knowledge in natural gas operations, processing techniques, and operational safety practices.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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