



*Training Course:
Separator Simulation & Internal Designs*

*13 - 17 September 2026
Dubai (UAE)*

Training Course: Separator Simulation & Internal Designs

Training Course code: EN235618 From: 13 - 17 September 2026 Venue: Dubai (UAE) - Training Course Fees: 5830 € Euro

Introduction

This training program, titled "Separator Simulation & Internal Designs," is designed by Global Horizon Training Center to provide participants with comprehensive knowledge and hands-on skills related to separator technologies. The course focuses on both simulation techniques and the design of internal components used in separation processes, specifically for the oil and gas industry. It aims to equip engineers and technical professionals with advanced tools to optimize separator performance and enhance their understanding of internal design considerations.

Objectives

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

1. Understand the fundamentals of separator technology and its applications in the oil and gas industry.
2. Utilize simulation tools to model and analyze separator performance.
3. Design and optimize separator internals for enhanced efficiency and productivity.
4. Troubleshoot common issues associated with separator operations.
5. Apply best practices in the maintenance and operation of separation equipment.

Target Audience

This training program is ideal for:

- Process engineers and design engineers
- Operations and maintenance personnel
- Technical managers and supervisors
- Professionals involved in the oil and gas industry
- Anyone interested in gaining in-depth knowledge of separator simulation and internal designs

Course Outline

Day 1: Introduction to Separator Technology

- Overview of separation processes in the oil and gas industry
- Types of separators: two-phase, three-phase, and more
- Basic principles of fluid dynamics in separation
- Introduction to simulation tools for separator analysis
- Case studies on separator applications

Day 2: Separator Simulation Techniques

- Detailed modeling of separator units using simulation software
- Key parameters affecting separator performance
- Step-by-step guide to building a separator simulation model
- Analyzing results and interpreting simulation data
- Practical exercises with real-life examples

Day 3: Internal Design Considerations

- Components of separator internals: baffles, weirs, demisters, etc.
- Design principles for optimizing separator internals
- Material selection and its impact on performance
- Innovations and advancements in internal designs
- Workshop on designing separator internals

Day 4: Optimization and Troubleshooting

- Techniques for optimizing separator efficiency
- Common operational issues and their causes
- Troubleshooting strategies for internal components

- Best practices in separator maintenance
- Case study analysis on optimizing separator performance

Day 5: Practical Application and Case Studies

- Integrating simulation results with design improvements
- Group exercise: Developing a complete separator model
- Review of industry-specific case studies
- Final assessment and feedback session
- Wrap-up and Q&A

Registration form on the Training Course: Separator Simulation & Internal Designs

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