



*Training Course:  
HYSYS Simulation & P&ID Generation*

*1 - 5 November 2026  
Dubai (UAE)*

## Training Course: HYSYS Simulation & P&ID Generation

Training Course code: EN235617 From: 1 - 5 November 2026 Venue: Dubai (UAE) - Training Course Fees: 5830 € Euro

### Introduction

Process simulation and engineering documentation are essential for designing, analyzing, and optimizing industrial processes in oil & gas, petrochemicals, and energy sectors. **Aspen HYSYS** is a leading tool used for steady-state and dynamic simulation, while Piping & Instrumentation Diagrams P&IDs are critical for translating process designs into operational systems.

This **5-day intensive training program**, developed by **Global Horizon Training Center**, provides a practical and integrated approach to process simulation using HYSYS and the development of accurate P&IDs. It combines simulation fundamentals with engineering documentation practices to support real-world process design and operation.

Participants will gain hands-on experience in building simulation models, analyzing process performance, and generating P&IDs aligned with industry standards.

### Course Objectives

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

- Understand process simulation fundamentals
- Build and run simulations using Aspen HYSYS
- Select appropriate thermodynamic models
- Model key process units separators, compressors, heat exchangers
- Interpret simulation results and optimize processes
- Develop and read P&IDs
- Integrate simulation outputs into engineering design documentation
- Apply industry standards for P&ID generation

### Target Audience

- Process and Chemical Engineers
- Oil & Gas Engineers
- Design and Project Engineers
- Plant Operations Engineers
- Engineering Consultants and Technical Specialists

## Outline

### Day 1: Introduction to Process Simulation & HYSYS Basics

- Overview of process simulation in engineering
- Introduction to Aspen HYSYS interface
- Thermodynamic models and fluid packages
- Creating basic simulation cases

### Day 2: Modeling Process Equipment

- Modeling separators and flash systems
- Heat exchangers and energy balance
- Compressors and pumps
- Stream properties and process flow analysis

### Day 3: Advanced Simulation and Optimization

- Process optimization techniques
- Sensitivity analysis
- Case studies in oil & gas processing
- Troubleshooting simulation issues

### Day 4: Introduction to P&ID and Engineering Documentation

- Fundamentals of P&IDs
- Symbols and standards ISA, ISO
- Reading and interpreting P&IDs
- Linking process flow diagrams PFDs to P&IDs

### Day 5: P&ID Development & Integrated Workshop

- Developing P&IDs from simulation data
- Control loops and instrumentation representation
- Safety and control integration
- Final workshop: Building a process simulation and generating P&ID
- Review and evaluation

## Registration form on the Training Course: HYSYS Simulation & P&ID Generation

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
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### Company Information

Company Name: .....  
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 City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
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### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
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### Easy Ways To Register

Telephone:  
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