



*Training Course:
Transport of Solids: Hydraulic & Pneumatic
Conveying*

*4 - 8 April 2027
Sharm El-Sheikh (Egypt)
Sheraton Sharm Hotel*

Training Course: Transport of Solids: Hydraulic & Pneumatic Conveying

Training Course code: EN6045 From: 4 - 8 April 2027 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel Training Course Fees: 5100 € Euro

Introduction

The transport of solids is a critical operation in industries such as cement, mining, food processing, and chemical manufacturing. Efficient conveying systems—whether hydraulic or pneumatic—are essential for maintaining continuous production, reducing material losses, and ensuring safe handling.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to design, operate, and optimize solid transport systems using hydraulic and pneumatic conveying methods.

Course Objectives

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

- Understand the principles of solid material transport
- Differentiate between hydraulic and pneumatic conveying systems
- Select appropriate conveying methods based on material properties
- Analyze system design parameters and flow behavior
- Operate and maintain conveying systems effectively
- Identify and troubleshoot operational issues
- Optimize system performance and energy efficiency
- Ensure safe and reliable material handling

Target Audience

This program is designed for:

- Mechanical and Process Engineers
- Plant and Operations Engineers
- Maintenance and Reliability Engineers
- Industrial and Manufacturing Professionals
- Technical staff involved in material handling systems
- Engineers working in bulk solids industries

Outline

Day 1: Fundamentals of Solid Transport

- Introduction to bulk solids handling
- Properties of solid materials particle size, density, flowability
- Overview of conveying systems
- Safety considerations
- Applications in industry

Day 2: Hydraulic Conveying Systems

- Principles of hydraulic transport
- Slurry flow behavior
- Pipeline design and operation
- Pumps and system components
- Advantages and limitations

Day 3: Pneumatic Conveying Systems

- Principles of pneumatic conveying
- Dilute phase and dense phase systems
- System components blowers, feeders, pipelines
- Design and operation
- Material-air interaction

Day 4: System Design and Optimization

- Selection criteria for conveying systems
- System sizing and design parameters
- Pressure drop and energy requirements
- Minimizing wear and material degradation
- Performance optimization techniques

Day 5: Maintenance, Troubleshooting, and Case Studies

- Preventive and predictive maintenance
- Identifying system faults
- Troubleshooting techniques
- Improving system reliability
- Case studies and real-world applications

Registration form on the Training Course: Transport of Solids: Hydraulic & Pneumatic Conveying

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