Global Horizon
TRAINING CENTER

Training Course:
Pump Shaft Alignment – Techniques, Tools, and Troubleshooting

14 - 18 December 2026
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside

Training Course:
Pump Shaft Alignment Techniques, Tools, and Troubleshooting

Training Course code: EN235981 From: 14 - 18 December 2026 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 7500 Euro

Introduction

Proper shaft alignment is critical for the reliable operation of pumps and rotating equipment. Misalignment is one of the leading causes of equipment failure, resulting in excessive vibration, bearing damage, seal failures, and increased energy consumption.

This program, developed by Global Horizon Training Center, provides a comprehensive and practical approach to pump shaft alignment. It covers alignment principles, measurement techniques, modern tools, and troubleshooting methods to ensure optimal equipment performance and longevity.

Participants will gain hands-on knowledge in diagnosing misalignment issues, performing accurate alignment using various methods, and applying corrective actions to improve system reliability.

Course Objectives

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

- Understand the fundamentals of shaft alignment
- Identify types of misalignment angular, parallel, combined
- Use alignment tools dial indicators, laser systems
- Perform alignment calculations and corrections
- Diagnose misalignment-related failures
- Apply best practices for installation and maintenance
- Improve equipment reliability and reduce downtime

Target Audience

- Mechanical and Maintenance Engineers
- Reliability and Asset Integrity Engineers
- Rotating Equipment Technicians
- Plant Operators and Supervisors
- Maintenance and Workshop Personnel

Outline

Day 1: Fundamentals of Shaft Alignment

- Importance of alignment in rotating equipment
- Types of misalignment angular, offset, combined
- Effects of misalignment on equipment performance
- Alignment standards and tolerances

Day 2: Measurement Techniques and Tools

- Straightedge and feeler gauge methods
- Dial indicator alignment techniques
- Reverse dial method
- Introduction to laser alignment systems

Day 3: Alignment Procedures and Calculations

- Step-by-step alignment process
- Soft foot detection and correction
- Thermal growth considerations
- Alignment calculations and corrections

Day 4: Advanced Alignment and Troubleshooting

- Laser alignment techniques and interpretation
- Diagnosing alignment errors
- Vibration analysis related to misalignment
- Troubleshooting common alignment problems

Day 5: Best Practices and Final Workshop

- Installation and maintenance best practices
- Alignment documentation and reporting
- Case studies on pump failures due to misalignment
- Final workshop: Performing full alignment procedure
- Review and evaluation

Registration form on the Training Course: Pump Shaft Alignment Techniques, Tools, and Troubleshooting

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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: .....
Official E-Mail: .....

Company Information

Company Name: .....
Address: .....
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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
Telephone / Mobile: .....
Personal E-Mail: .....
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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
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Easy Ways To Register

Telephone: +201095004484 to provisionally reserve your place.	Fax your completed registration form to: +20233379764	E-mail to us : info@gh4t.com or training@gh4t.com	Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.