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SHAFTS ALIGNMENT

Start Date:	03/11/2025	**End Date:**	07/11/2025
Categories:	Engineering & Maintenan	**Venues:**	Barcelona
Formats:	In Person	**Instructors:**	Marinel Hercut

OVERVIEW

This course equips maintenance professionals with alignment techniques for rotating shafts and coupled machines. It highlights the importance of precision alignment to prevent excessive vibration, seal failures, and equipment breakdowns in critical systems.

OBJECTIVES

By the end of this course, participants will be able to: – Understand the impact of misalignment on equipment reliability. – Perform accurate shaft alignment using dial indicators and laser systems. – Diagnose soft foot, pipe strain, and other alignment-related issues. – Document alignment results and create compliance reports. – Implement precision alignment in daily maintenance protocols.

COURSE OUTLINE

1- Shaft Alignment Theory and Terminology 2- Tools and Methods: Dial Indicators, Rim-Face, and Laser 3- Alignment Procedures and Standards 4- Troubleshooting Misalignment Issues 5- Documentation, Reporting, and Practice

TARGET AUDIENCE

Mechanical technicians, maintenance supervisors, millwrights, and reliability engineers in heavy industries.

METHODOLOGY

Hands-on alignment tools, demo rigs, misalignment diagnosis labs, and precision exercises.

CONCLUSION

Participants will be capable of performing alignment tasks that improve system performance and prolong equipment life.

DAILY AGENDA

Day 1: Alignment Basics and Concepts

Explore effects of misalignment, coupling types, and alignment principles.

Day 2: Tools and Techniques

Practice with dial indicators, laser aligners, and visual alignment tools.

Day 3: Execution and Best Practices

Conduct full alignment processes and troubleshoot inaccurate results.

Day 4: Field Challenges and Solutions

Address pipe strain, thermal growth, and foundation movement.

Day 5: Hands-on Assessment

Complete multiple alignment tasks and submit documentation reports.

For more information, please contact us:
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