Advanced Alignment Training

(3 Days)

1. Shaft Alignment Definition
2. Why do we perform shaft alignment?
   - 2.1. Improve efficiency
   - 2.2. Reduce wear
   - 2.3. Increase uptime-Reliability
3. Shaft alignment methods
   - 3.1. Straight edge
   - 3.2. Dial indicator
   - 3.3. Laser alignment
4. Preparation for alignment
   - 4.1. Necessary tools
   - 4.2. Safety aspects
   - 4.3. Determining tolerances
   - 4.4. Determine Targets/Thermal Growth
5. Understanding alignment
   - 5.1. Alignment terminology
   - 5.2. Visualizing the geometry
   - 5.3. Introduction of Alignment Checklist
   - 5.4. Soft Foot Correction
   - 5.5. Final Alignment
   - 5.6. Correct Tightening Procedure
   - 5.7. Saving the Alignment Job
6. Issues that make alignment challenging
   - 6.1. Repeatability
   - 6.2. Pipe Strain
   - 6.3. Base issues
   - 6.4. Ambient vibration
   - 6.5. Sunlight
   - 6.6. Soft Foot Nightmares
7. Additional Features
   - 7.1. Thermal Growth and Targets
   - 7.2. Measurement Modes
   - 7.3. Static Feet-Optimal Move
   - 7.4. Types of Couplings
   - 7.5. Vertical Alignment
   - 7.6. Machine Train-Optimal Move
     - 7.6.1. Cooling Towers & Other Long Spacers
     - 7.6.2. Simultaneous Multi-Coupling
8. Reporting
9. Special Applications-Upon request by Customer

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