Advanced field balancing

Key benefits
Gain a deep understanding of machine train balancing methods to be used in the field, and build real-world confidence through hands-on practice on test rotors.

Course objectives
• Conduct effective balancing of machine trains in the field, including: trial weight calculation, data integrity troubleshooting, result evaluation, and decision-making
• Select appropriate strategies to help lower disruption costs and ensure proper data quality
• Choose the most effective calculation tools for each specific situation, efficiently evaluate inputs and outputs, and recalculate between balancing methods and data conventions.

Program components
• Balancing fundamentals – diagnose unbalance issues and other similar malfunctions – select proper balancing strategies – ensure repeatability – decrease non-linearity – calculate trial weights
• Basic calculations and conventions – perform vector operations – locate the unbalance position – find angular location on a rotor
• Single plane balancing – workshop
• Static/couple balancing – workshop
• Influence vector method (multiplane) balancing
• Static/couple vs. influence vector methods
• Influence vectors workshop – import data – export data – recalculate between methods
• Balancing for compromise conditions
• Evaluating balancing quality – interpret balancing reports
• Final workshop and examination – balance in multiple planes

Course duration
5 days (35 hours)

Equipment types
Machine Trains

Audience
• Machinery diagnosticians
• Startup engineers
• Remote diagnostic center specialists

Prerequisites
Machinery Diagnostics (MD) course

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