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TRAINING CENTER ATC AUTHORIZED
STRATEGIC RELIABILITY SOLUTIONS LTD

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PRECISION FIELD BALANCING

COURSE OVERVIEW

Precision-balanced machines run more smoothly and suffer fewer failures - plus they consume less energy. Precision balancing must be part of your reliability improvement strategy. Precision Field Balancing makes it easier to gain knowledge, confidence, and competence.

AGENDA

- Introduction
- What is unbalance
  - What causes machines to be out of balance
- Understanding phase
  - Phase conventions
  - Advanced phase
  - Understanding vectors
- Balancing theory
  - Different types of unbalance
- Diagnosing unbalance
  - Confusing unbalance with other fault conditions
- Preparing for the balance job
- Single plane balancing
  - Single plane vector balancing
- Two plane balancing
  - Static-couple balancing
- Balancing overhung rotors
- Four run no phase balancing
- Trial weight selection
- Splitting and combining weights
- What can go wrong – and how to recover
- Tolerances and quality and the ISO standards
- Tolerances and quality and the API MIL standards
- Conclusion

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