

ME12: Vibration Analysis

Catalogue Number	ME12-0001
Category	JobMaster
Duration	15 Hours

Introduction to Vibration

Skill 1: Reading a Vibration Severity Chart

- 1.1: What is Vibration
- 1.2: Frequency
- 1.3: Severity
- 1.4: Skill Overview
- 1.5: Skill Drill
- 1.6: Concept Review

Skill 2: Filling Out a Maintenance Log

- 2.1: Completing Maintenance Logs
- 2.2: Skill Overview
- 2.3: Skill Drill
- 2.4: Concept Review

Skill 3: Measuring the Vibration of a Motor

- 3.1: Measuring Vibration
- 3.2: Displacement, Velocity, and Acceleration
- 3.3: Skill Overview
- 3.4: Skill Drill
- 3.5: Concept Review

Skill 4: Measuring the Axis and Location of Vibration

- 4.1: Axis and Location of Vibration
- 4.2: Skill Overview
- 4.3: Skill Drill
- 4.4: Concept Review

Skill 5: Measuring Shaft Misalignment

- 5.1: Misalignment and Vibration in Shafts
- 5.2: Skill Overview
- 5.3: Skill Drill
- 5.4: Concept Review

Skill 6: Troubleshooting Misaligned Shaft Vibration

- 6.1: Troubleshooting Misaligned Shaft Vibration
- 6.2: Isolating vibration
- 6.3: Skill Overview
- 6.4: Skill Drill
- 6.5: Concept Review

Skill 7: Measuring Coupling Vibration

- 7.1: Rigid Couplings
- 7.2: S-flex and grid couplings
- 7.3: 3-Jaw Couplings
- 7.4: Skill Overview
- 7.5: Skill Drill
- 7.6: Concept Review

Skill 8: Troubleshooting Bent Shaft Vibration

- 8.1: Central Bent
- 8.2: End Bent
- 8.3: Troubleshooting Bent Shafts
- 8.4: Skill Overview
- 8.5: Skill Drill
- 8.6: Concept Review

Skill 9: Troubleshooting Defective Shaft Component Vibration

- 9.1: Unbalanced Components
- 9.2: Eccentric Components
- 9.3: Crooked Bore Components
- 9.4: Troubleshooting Shaft Components
- 9.5: Skill Overview
- 9.6: Skill Drill
- 9.7: Concept Review

Skill 10: Troubleshooting Resonant Vibration

- 10.1: Resonance
- 10.2: Sympathetic Vibrations
- 10.3: Troubleshooting Resonance
- 10.4: Skill Overview
- 10.5: Skill Drill
- 10.6: Concept Review

Skill 11: Demonstrating Vibration Source Principles

- 11.1: Gear Teeth
- 11.2: Bearings
- 11.3: Loose Fits
- 11.4: Skill Overview
- 11.5: Skill Drill
- 11.6: Concept Review