



PRECISION MAINTENANCE SKILLS 1

Reducing Common Assembly Errors in Equipment to Exponentially Extend MTBF

COURSE DESCRIPTION

Learn How to Easily Double or Triple Rotating Equipment Life by making vibration much lower through the elimination of common assembly errors and adherence to rigid precision installation, rebuild, and maintenance standards which we will show you how to achieve with little or no extra down time.

Participants will dis-assemble, re-assemble, correct defects, perform precision alignment for both in-line coupled & v-belt driven machines, and measure the noticeable improvements as common field & shop assembly errors are eliminated from our running and static simulators.

RECOMMENDED AUDIENCE: maintenance and construction craftsmen, apprentices, front-line supervisors, project & reliability engineers, maintenance managers, & superintendents, operations personnel and significant others implementing plant reliability improvement.

COURSE OBJECTIVES

- Understand what Precision Maintenance Is & how to achieve w/o extra downtime
- How to identify and avoid common assembly errors
- Understand and correct common fit & tolerance problems
- Learn basic bearing installation problems and corrections
- Learn what is good, fair, and bad vibration & how it affects equipment life
- How to lower vibration & exponentially improve Bearing life (MTBF)
- How to significantly improve and retain balance
- How to improve upon “status-quo” alignment standards & achieve precision alignment.
- How to create smooth running belt drives
- How to reduce energy consumption 5%, 10%, or more on most Equipment
- Learn Common Lubrication Errors & How to Avoid

TOPICS COVERED

- Introduction to Precision and Expected Results
- Basic Vibration for Laymen
- Common Assembly Errors
- Precision Measuring Tools
- Rough Alignment
- Fits and Tolerances
- Bearing Overview (preparation for Skills 2)
- Lubrication Basics and Mistakes to avoid
- Precision Alignment
- Thermal Growth
- Balance
- Couplings

A Hendrix Precision - Cornerstone Partnership





“What Hendrix teaches is what’s missing from new generations in maintenance - hands on practical application that you just can’t get from a book or YouTube.”

-Senior Manufacturing Consultant – Pulp and Paper Industry



“The only way to truly breakthrough with exponential improvement in asset management and maintenance improvement.”

-Maintenance Mgr. - Pharmaceutical Industry

