# Vibration Analysis Training Courses

## Course Name:

**Stroboscope Analysis Training**

## Course Description:

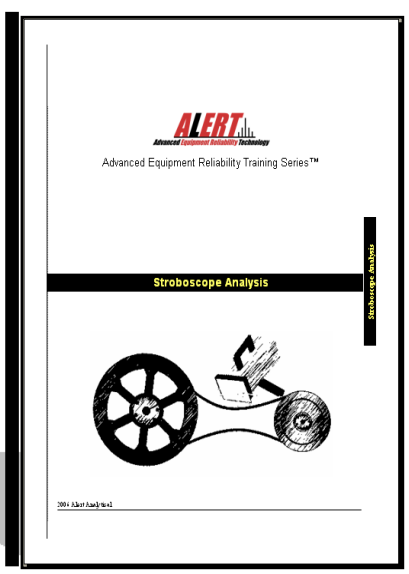
This course will show students how to use the stroboscope for analysis of rotating equipment. This course is useful for craftsmen and reliability technicians. This course uses video images also to show students exactly what to look for and how to find sources of our machine vibration using a stroboscope.

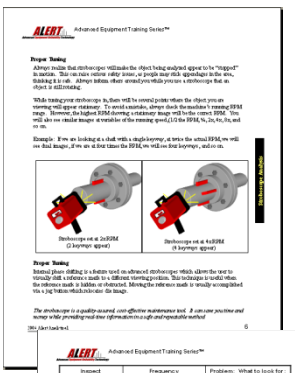
## Course Objectives:

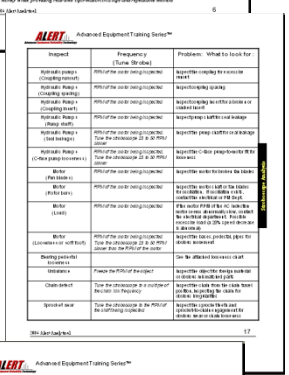
The objective of this course is for the student to develop useful analysis techniques using the stroboscope as a tool by seeing dynamic (running) equipment in a static (unmoving) state. The goal of this training is to bring attendees to an investigative mindset instead of a reactive, repair-based mindset. This stroboscope course is rooted in Root Cause Failure Analysis. This course will show that equipment which appears to be maintained in a static state, may not be acceptable in the dynamic state. This tool creates maintenance detectives.

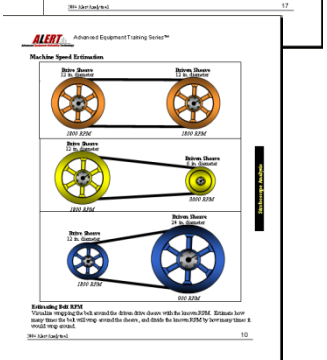
## Topics:

- What is a “strobe light”
- What can a stroboscope see
- How to properly use a stroboscope
- Equipment identification of problems using a stroboscope
- Proper stroboscope tuning
- Inspecting for shaft axial looseness
- Inspecting for shaft runout
- Inspecting coupling bolts
- Coupling inspection
- Coupling alignment
- Coupling runout
- Looseness
- Unbalance
- Soft foot
- Resonance
- Sheave and belt condition







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