



2 Day Basic Shaft Alignment Training Syllabus

PREREQUISITE:	None, however, see class length below.
CLASS LENGTH:	Two days (16 hours) for students who have never performed an alignment in the field or don't have a basic understanding of shaft to shaft alignment. Also, for those students that have not performed alignment for quite some time and need a refresher. 2 days is required for the student that is taking this course for "Certification in Basic Alignment."
WHO SHOULD ATTEND:	Millwrights, mechanics, machinists, service technicians and field engineers who intend to be proficient in the basics of shaft to shaft alignment. Easy-Laser® customers.
THE COURSE:	The emphasis in this course is based upon good field practice and practical applications. In many cases, the alignment procedures discussed in the class offer choices rather than a single rule, as over the years aligners have developed differing procedures to guide them in matters of alignment. One aligner may favor a particular method while another favor another way. Neither of these is necessarily wrong; each way simply follows a different procedure. There are, of course, limits on the range of procedures available to aligners.
COURSE DESCRIPTION:	This course will enable the student to understand alignment fundamentals in all aspects of alignment basics. Emphasis will be directed to properly set-up and measure using the alignment tool used in their workplace.

The following is a list of the subjects covered in the Basic Alignment training class:

Alignment Fundamentals - An Introduction

- Introduction to Shaft Alignment
- What is misalignment?
- Pre-Alignment checks and soft foot
- Determining the alignment state

Shaft Alignment Mathematics - A Primer

- Offset, angularity and alignment mathematics

Soft Foot Checks and Corrections

- Detecting and Correcting Soft Foot
- Why is soft foot important?
- Testing for soft foot
- Correcting soft foot

Laser Alignment

- Laser alignment systems
- Easy-Laser systems
- Using the laser alignment system
- Performing laser alignment measurements

Moving the Machine

- Moving the machine
- Solutions to Base bound and bolt bound situations

Dynamic and Thermal Movement

- Dynamic and Thermal Movement
- Dealing with dynamic movements