



SYLLABUS

CATALOG DESCRIPTION

This course explains why precision shaft alignment is so important, why soft foot correction is important, how to use dial indicators, how laser alignment systems work, how to deal with thermal growth, how to move the machine and deal with all of the complications that can arise.

Prerequisites: None

Semester Offered: All

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. Identify the problems of misalignment.
2. Understand how alignment effects vibration problems on equipment.
3. Discover different types of couplings and their benefits.
4. Learn the uses of dial indicators for alignment.
5. Properly perform a rim and face, reverse dial and straight edge alignment.
6. Learn the difference between angular and offset misalignment and how correct both.
7. Understand the effects of soft foot and how to correct it.
8. Perform alignment procedures on large equipment and calculating for thermal growth.