

SYLLABUS

COURSE # AND TITLE _Comp231 Nat Gas Comp Repair/OH_ **# OF CREDITS** __3__

CATALOG DESCRIPTION: Study of natural gas compressor repair and overhaul. Students will develop skills and techniques for overhaul and repair of natural gas compressors as required by OEM

Semester Offered: Fall, Spring and Summer

Prerequisites: COMP 230

Common Student Learning Outcomes

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

<i>Learn</i>	<i>Students will actively and independently acquire, apply and adapt skills and knowledge to develop expertise and a broader understanding of the world as lifelong learners.</i>
<i>Think</i>	<i>Students will think analytically and creatively to explore ideas, make connections, draw conclusions, and solve problems.</i>
<i>Communicate</i>	<i>Students will exchange ideas and information with clarity and originality in multiple contexts.</i>
<i>Integrate</i>	<i>Students will demonstrate proficiency in the use of technologies in the broadest sense related to their field of study.</i>
<i>Act</i>	<i>Students will act purposefully, reflectively, and respectfully in diverse and complex environments.</i>

GENERAL LEARNING OBJECTIVES

1. Remove, inspect, and replace compressor valves
2. Completely disassemble, inspect, recondition or replace defective components
3. Align compressor to engine drive couplings per manufactures specifications

SPECIFIC LEARNING OUTCOMES

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

1. Remove, inspect, and replace or repair pistons and bearings to OEM specifications
2. Remove, inspect, and/or replace crankshafts as reuired by OEM specifications
3. Remove and repair/replace rod packing as needed
4. Diagnose safety shutdown devices, repair/replace as needed
5. Diagnose, remove, and replace pressure relief and blow down valves as needed
6. Recognize gasket materials and their uses
7. Demonstrate proficiency in teardown and rebuilding of compressor valves
8. Understand different valve materials and temperature specifications

Syllabus developed by _Randy Randall and Linda J Martinez__ **Date:** __February 15, 2006__

Syllabus reviewed by _____ **Date:** _____

A current syllabus must be on file in the dean's office for every course being taught during a given semester.