



SYLLABUS

CATALOG DESCRIPTION

The study of Basic Compressor Theory. Students will gain techniques, skills and procedures to appropriately recognize the principles of gas engines as well as compression. Safety will be strictly enforced.

Prerequisites: SAFE139 & PLACEMENT INTO MATH 113, ENGL 111, RDNG 113

Semester Offered: Fall, Spring & Summer

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. Diagnose compression malfunctions.
2. Adjust compressor pockets for proper operation with regard to pressure, flow and horsepower parameters.
3. Diagnose, remove and replace pressure relief and blow down valves as needed.
4. Identify compression ratios and gas flows.
5. Read and understand compressor curves.
6. Identify equipment as to manufacture, model and serial number.
7. Correctly identify compressor components.
8. Gain knowledge of basic compression terms.
9. Perform gas compression calculations.