

SYLLABUS

COURSE # AND TITLE COMP121 Nat Gas Eng Prevnt Maint **# OF CREDITS** 4

CATALOG DESCRIPTION: Students will become familiar with a variety of OEM procedures for performing Natural Gas Engine Preventative Maintenance on various natural gas engines.

Semester Offered: Fall, Spring and Summer

Prerequisites: COMP111, COMP112

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. Correctly perform safety checks as detailed by company, regulating agencies and manufacture(s)
2. Safely operate hand and power tools required to perform related tasks
3. Properly record all discrepancies noted on correct inspection documents

SPECIFIC LEARNING OUTCOMES

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

1. Correctly inspect engine for oil, coolant and fuel leaks; check oil and/or coolant for proper levels
2. Properly inspect engine for looseness and damage
3. Suitably inspect air intake and exhaust systems for leaks and damage
4. Inspect starter mounting and connections
5. Properly lubricate entire unit per lubrication chart recommendation
6. Examine and inspect unit for damaged and/or missing components
7. Correctly adjust engine valve clearance as needed
8. Collect oil samples and interpret the results
9. Develop proper procedure for changing and maintaining spark plugs

Syllabus developed by Randy R Randall and Linda J Martinez **Date:** February 14, 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.