

SYLLABUS

COURSE # AND TITLE __COMP123 Nat Gas Electrical Diag____ **# OF CREDITS** __3____

CATALOG DESCRIPTION: Study of techniques and procedures to correctly troubleshoot and diagnose electrical problems associated with natural gas compression. Safety will be strictly enforced.

Semester Offered: Fall, Spring and Summer

Prerequisites: COMP 111, 112, 121, 122

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. Locate shorts, grounds, and opens in electrical/electronic circuits
2. Test and inspect for missing, modified, or damaged engine control components as well as programmed parameters
3. Discover actuators/circuits using displayed data
4. Interpret basic electrical schematics

SPECIFIC LEARNING OUTCOMES

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

1. Check applied voltages, circuit voltages, and voltage drops in electrical/electronic circuits using a digital multimeter
2. Verify current flow in electrical/electronic circuits and components using an ammeter
3. Prove resistance in electrical/electronic circuits and components using an ohmmeter
4. Perform digital multimeter tests on circuits

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.