SAN JUAN COLLEGE
Success Matters

MECH 2310- INTRODUCTION TO MECHANICAL MAINTENANCE 4 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course teaches the technical skills needed to operate, install, tune, maintain and troubleshoot automatic lubrication systems. Lubrication concepts, setup and tuning, pneumatic pumps, and series progressive valve systems. In addition, students will learn how to use different types of measurement and hand tools. Students will know how to write maintenance orders and will practice safety protocols. 3 credits lab.

Prerequisites: ENGY 1110, 1310, 1330

Semester Offered: Fall

GENERAL EDUCATION STUDENT LEARNING OUTCOMES

In the New Mexico General Education Curriculum students take courses in a variety of content areas, which may include Communications, Mathematics, Science, Social and Behavioral Sciences, Humanities, and the Creative and Fine Arts. Specific course requirements depend on your program. All general education courses focus on at least three of these skills. Other courses may also develop these skills.

Through these courses, students develop five essential skills:

COMMUNICATION

QUANTITATIVE REASONING

CRITICAL THINKING

PERSONAL AND SOCIAL RESPONSIBILITY

INFORMATION AND DIGITAL LITERACY

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

COURSE LEARNING OUTCOMES

Upon successful completion of the course, students will be able to…

1. Students will gain general knowledge in safety, tools and lubrication encountered in industrial maintenance.

2. Students will learn and practice basic measurement skills to include reading a rule and tape measure.

   Students will learn and practice measure in the SI format as well as, the U.S customary format.

   Students will gain knowledge and proficiency in the use of precision measurement equipment to include: dial calipers, digital calipers, dial indicators and micrometers.

3. Students will be introduced to central lubrication systems and gain knowledge and skills involved with these systems.

   Pneumatic pumps, controllers and controller programing are covered.

   Students will learn lubrication concepts to include oils, greases, and lubricant management.

   Students will learn about series/progressive lubrication systems, their associated components and maintenance.

   Students will also learn troubleshooting series/progressive lubrication systems.

   Piston distributor type lubrication systems will be covered to include: specifications, installation and maintenance, as well as troubleshooting these systems

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