SAN JUAN COLLEGE
Success Matters

ENER-1410 INTRODUCTION TO DISPOSAL WELL OPERATIONS .5 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course is designed to prepare maintenance and service technicians the knowledge to properly maintain and service rotary screw compressors. Students will gain theoretical and practical knowledge of the design and operation of the equipment through classroom studies and hands-on demonstrations.

Prerequisites: None

Semester Offered: All

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. Identify a disposal well from a producing well.
2. Identify the primary components of a disposal facility and their functions.
3. Identify the common types of injection pumps and filters.

4. Understand how produced water is injected into a safe, deep zone.
5. Explain why filtering water is important prior to injecting it into a reservoir.
6. Explain how a pump accepts and discharges water in a Disposal facility.
7. Describe the importance of effectively and efficiently disposing of produced water.
8. Explain how an injection wellhead is hooked up differently than a producing wellhead.
9. Demonstrate an understanding of the flow of water in a disposal system.