

SYLLABUS ENER 217 Introduction to Cathodic Protection .5 credits

CATALOG DESCRIPTION:

Course presents the basic design and operation of how to prevent internal and external corrosion issues for the Oil & Gas Industry. Instruction provides students with standard terminology to promote effective communication regarding the process of how corrosion is created and the operational and economic problems caused from if it is not used.

Prerequisites: Must have completed 80% of ENGY Certificate requirements

Semester Offered: Spring, Summer, Fall

Course Learning Outcomes

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.

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

1. Understand the reason for proactive corrosion protection.
2. Discuss the basic principle of cathodic protection.
3. Name two methods of corrosion control.
4. Give an example of how corrosion affects their daily life.
5. Explain what cathodic protection related issues should be reported when inspecting a well site.