

SAFT-2210 Technical Issues in Commercial Construction Part

3 CREDITS

2 SYLLABUS

CATALOG DESCRIPTION

Course addresses construction safety for excavation, demolition, concrete, confined space work, and industrial hygiene issues. This course covers safe excavation practices, protective systems, power line safety, environmental & legal impacts of demolition hazards, confined space hazards, general concrete safety, and material exposures. A rationale for supporting safety practices at construction sites when dealing with excavation, demolition, concrete work, and confined space issues.

Prerequisites:

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. Explain soil mechanics theory
2. Identify suggested trench rescue techniques
3. Explain OSHA requirements specific to power-line construction safety
4. Understand the hazards associated with power-line construction
5. Identify critical points in the construction process for the control of adverse environmental impacts
6. Develop an Environmental Management System to address environmental hazards
7. Understand criminal penalties for violations of EPA regulations
8. Identify the purpose of an Environmental Management System (EMS)
9. List the specific requirements associated with blasting operations
10. Identify required PPE associated with concrete construction
11. Identify potential hazards during confined space entry
12. Recognize industrial hygiene issues related to the construction industry