

1 SYLLABUS

CATALOG DESCRIPTION

Course addresses safe construction methods. This course covers steel erection, scaffold, and ladder safety, as well as fall protection, crane design, and electrical safety. A rationale for company best practices when dealing with structural stability for steel work, supporting scaffolds and crane injuries.

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. List the hierarchy of fall protection to set priorities for planning.
2. Explain how to watch for hazards when using fall protection equipment.

3. Identify the most frequent causes of steel erection accidents that lead to injury or death.
4. Provide examples of best practices to prevent steel erection accidents.
5. Identify various scaffolds.
6. Explain the basic safety guidelines for using supported scaffolds.
7. List items that should be considered during scaffold inspection.
8. Identify the key compliance requirements regarding ladder use and maintenance.
9. Identify the six most frequent causes of crane injury and death.
10. Describe how electric shock occurs.
11. Identify the methods to eliminate or control electrical hazards found on construction sites.