

FIRE-131-ROPE RESCUE TECHNICIAN 2 CREDITS

SYLLABUS

CATALOG DESCRIPTION

Teaching the concepts, techniques, and safety for the standard disciplines of rope rescue in the fire service. The student is taught to the technician level of high angle rescue according to NFPA 1670. Techniques, equipment, strategies and safety are covered. Students are given the opportunity to complete extensive hands-on practice.

Prerequisites: None

Semester Offered: Fall and Spring

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. Complete instruction in generally recognized rope rescue techniques.
2. Have an exposure to current rope rescue theories and philosophies being taught internationally.

3. Have a structured, progressive, hands-on methodology to aid retention of skills, and/or to upgrade existing skills.
4. Have a mechanism to improve communication and incident management for technical operations
5. Understand the application of current safety considerations for rope rescues.
6. Have an exposure to pre-planning and size-up of possible locations and hazards where rope rescue operations are needed.

Specific Learning Outcomes

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

1. List the basic characteristics of ropes, knots, technical gear, and litters used in low angle, to high angle rescue work.
2. Manage such systems with fair competency in actual terrain.
3. Describe the management skills needed to direct a technical rope rescue mission.
4. Tie basic rescue knots.
5. Understand and utilize basic camming devices and hitches.
6. Understand and utilize tensioning systems and mechanical advantage systems.
7. Construct effective anchors, utilize natural and artificial anchors.
8. Understand and utilize rope protection.
9. Manage a self-belay, and understand the differences between Independent Belays and Conditional Belays
10. Package a patient into a litter.
11. Rig a litter attachment system.
12. Set up and manage a friction lowering system.
13. Set up and manage a raising system.
14. Understand the role of the Incident Command Systems and the unique position of Safety Officer in rope Rescues.
15. Ascend and descend a fixed rope, while using ascending and descending devices.
16. Set and manage a vertical lowering system and switch to a raising system.
17. Set and manage a system to pass a knot through a raising and lowering system.
18. Direct a raising and lowering evolution with a litter and litter attendant for a vertical rescue.