



**COURSE OUTLINE**  
**Palo Verde College**  
 One College Drive, Blythe, CA 92225  
 (760) 921-5500

Course Control Number:

Latest Revision: 12/1/10

Board Approval: 1/25/11

**1. Course Information. Course Initiator:** Frank Kelly

Subject Area and Course Number: <b>FST 175</b>		Course Title: Low Angle Rope Rescue Operational	
New Course <input type="checkbox"/> Revised <input checked="" type="checkbox"/> Updated <input type="checkbox"/>		Static ID <b>I17598</b>	TOP Code <b>2133.00</b>
Classification Code <b>I=Occupational Education</b>	SAM Code <b>B=Advanced occupational</b>		Credit Status Request <b>D=Credit-Degree Applicable</b> <b>Course prior to college level</b> <b>Y=Not applicable</b>
Noncredit category <b>Y=Not Applicable; Credit Course</b>		Meets a unique need: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Course duplicated: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Transfer request <b>C=Non-transferable</b>		Demand/Enrollment Potential: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Articulation request: UC <input type="checkbox"/> CSU <input type="checkbox"/> CSU-GE <input type="checkbox"/> IGETC <input type="checkbox"/> CAN <input type="checkbox"/>		Basic Skills Choose one: <b>Funding Agency</b> <b>Y=Not Applicable</b>	
Co-Op Status <b>N=Not Part of a Co-Op Program</b>		Course Program Status <b>2=Stand-alone</b>	
Special Class Status <b>N=Course is Not a Special Class</b>			

2. Some or all aspects of this course may be delivered in a Distance Education mode: Yes ☐ No ☒  
 If checked yes, all questions pertaining to Distance Education must be answered.

3. This course has laboratory or clinic/field hours: Yes ☒ No ☐  
 If checked yes, this outline must include a list of laboratory or clinic/field activities or topics.

4. This course has prerequisites, co-requisites, or advisories: Yes ☐ No ☒  
 If checked yes, please complete a [Prerequisite Justification Form](#).

5. Curriculum Committee Approval Date:

6. After Curriculum Committee approval, the following is to be completed by the Office of Instruction:

TRANSFER APPROVAL STATUS	ARTICULATION APPROVAL STATUS					
Approval Pending		Not Requested	Date of Submission	Approval Pending	Approval Denied	Date Approved
	UC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	CSU	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	CSU-GE	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	IGETC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	CAN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

**CATALOG DESCRIPTION:**

Designed to equip the student with the techniques and methods for using rope, webbing, hardware friction devices, litters in low angle rescue situations. Areas covered include: Rope and related equipment, anchor systems, safety lines, stretcher lashing and rigging, mechanical advantage systems and single line and two line rescue systems. This course may be offered as Pass/No Pass.

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**UNITS:** .5

**FACE TO FACE:** 24    **Hours Per Week:**    **Lecture:**                      **Laboratory:** 24    **Clinic/Field:**

**DISTANCE EDUCATION:** n/a

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**ENTRY LEVEL SKILLS, PRE-REQUISITES, CO-REQUISITES AND ADVISORIES:**

**Restrictions:** This course requires a site with adequate materials and equipment to deliver the training according to the course outline. Ratio: 12:1 (48 students maximum with four instructors)

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**OBJECTIVES and LEARNING OUTCOMES:**

**Upon successful completion of the course the student will be able to:**

1. Recite information on rope rescue equipment, rescue knots and hitches, anchor systems, system attachments and fall restraint, belay/safety line systems, load-releasing devices.
  2. Demonstrate methods and techniques used to inspect and maintain rescue rope, webbing, and hardware.
  3. Demonstrate methods and techniques to tie knots and package victims and rescuers.
  4. Demonstrate methods and techniques for using rescue equipment to build lower/raise (mechanical advantage) systems.
  5. Recite information on rescue scene organization and management.
  6. Demonstrate and apply basic low angle rope rescue techniques.
  7. Describe information on litter walkouts and ladder systems used in low angle rope rescue operations.
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**COURSE OUTLINE AND SCOPE:**

**1. Outline of Topics or Content:**

1. Introduction
2. Rope Rescue Equipment
3. Rescue Knots and Hitches
4. Anchor Systems
5. Rescuer and Ambulatory Victim Packaging
6. Types of Rescue Litters and Victim Packaging

7. System Attachments and Fall Restraint
8. Three Main Components of a Low Angle Rope Rescue System
9. Belay/Safety Line Systems
10. Descending and Ascending Techniques
11. Lower/Raise (Mechanical Advantage) Systems
12. Load-releasing Methods
13. Rescue Scene Organization and Management
14. *Litter Walkouts (Optional)*
15. *Ladder Systems (Optional)*
16. Evolutions

**2. If a course contains laboratory or clinic/field hours, list activities or topics:**

Students will participate in a four (4) hour simulated technical rope rescue problem. The student will be required to utilize the techniques taught in the course as well as perform practical skills learned.

**3. Examples of Reading Assignments:**

Reading from assigned text and articles

**4. Examples of Writing Assignments:**

Essays as assigned  
Article reviews as assigned

**5. Appropriate Assignments to be completed outside of class:**

Reading as assigned  
Journal entry as assigned

**6. Appropriate Assignments that demonstrate critical thinking:**

In a given scenario, the students, as a group, will provide solutions to the problem set forth in the scenario.

**7. Other Assignments:**

n/a

**8. Indicate any assignments that are unique to the Distance Education mode of delivery:**

n/a

**METHOD OF EVALUATION—FACE TO FACE:**

Demonstration of skills by students  
Written and oral quizzes as indicated by the Instructor(s)

**METHOD OF EVALUATION—DISTANCE EDUCATION:**

n/a

**METHOD OF INSTRUCTION—FACE TO FACE:**

Lecture  
PowerPoint and videos  
Demonstrations by the Instructor(s)

**METHOD OF INSTRUCTION—DISTANCE EDUCATION:**

n/a

**REPRESENTATIVE TEXTBOOKS, AND OTHER READING AND STUDY MATERIALS:**

**This section shall include author(s), title, and current publication date of all representative materials.**

California State Fire Marshal – Field Guide 2008

**VENDORS FOR INSTRUCTOR AND STUDENT MATERIALS:**

Palo Verde College Bookstore, One College Drive, Blythe, CA 92225  
[www.paloverde.edu](http://www.paloverde.edu) Ph. 760-921-5429  
CFCA California Fire Chief's Association Bookstore, 727 Center Street NE, Salem, OR 97301  
[www.calchiefs.org](http://www.calchiefs.org) Ph. 800-733-2314  
ICC International Code Council, 5360 S. Workman Mill Rd., Whittier, CA 90601  
[www.iccsafe.org](http://www.iccsafe.org) Ph. 800-284-4406  
FPP Fire Protection Publications, 930 North Willis, Stillwater, OK 74078-8045  
[www.ifsta.org](http://www.ifsta.org) Ph. 800-654-4055  
SFT State Fire Training Bookstore, PO Box 944246, 1131 S Street, Sacramento 94244  
[www.fire.ca.gov](http://www.fire.ca.gov) Ph. 916-445-8158  
FIREScope Firefighting Resources of California Organized for Potential Emergencies  
[www.firescope.org](http://www.firescope.org)  
NWCG  
National Wildlife Coordinating Group National Interagency Fire Center  
Attn: Great Basin Cache Supply Office, 3833 S. Development Avenue, Boise, ID 83705  
[www.nwcg.gov](http://www.nwcg.gov) 208-387-5104  
SFT State Fire Training Bookstore, PO Box 944246, 1131 S Street, Sacramento 94244  
[www.fire.ca.gov](http://www.fire.ca.gov) 916-445-8158

**SIGNATURES:**

**COURSE INITIATOR:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**LIBRARY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**CHAIR OF CURRICULUM COMMITTEE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**SUPERINTENDENT/PRESIDENT:** \_\_\_\_\_ **DATE:** \_\_\_\_\_