Subject:	FTEC
Course Number:	505
Descriptive Title:	S-130 Firefighter Training - Wildland
Division:	Health Sciences and Athletics
Department:	Fire and Emergency Technology
Course Disciplines:	Fire and Emergency Technology, Fire Technology
Catalog Description:	The intent of this noncredit course is to train new firefighters in basic firefighting skills. This includes a required field exercise that may be arduous in nature. S-190, Introduction to Wildland Fire Behavior, is a prerequisite and must have been successfully completed prior to taking the S-130, Firefighter Training course.
Prerequisite:	FTEC 501 or S-190 Certification
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	
Hours Lecture (per week):	1.6
Hours Laboratory (per week):	.16
Outside Study Hours:	3
Total Course Hours:	32
Course Units:	0
Grading Method:	Pass/No Pass only
Credit Status:	Noncredit
Transfer CSU:	No
Effective Date:	
Transfer UC:	No
Effective Date:	
General Education ECC:	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	

CalGETC:	
Term:	
Other:	
Student Learning Outcomes:	Upon completion of this course, the student should be able to: 1. Apply the Standard Firefighting Orders and Watch Out Situations to evaluate risk and support safe decision-making in wildland fire operations. 2. Demonstrate effective use of the LCES system and communication tools to support situational awareness and crew safety on the fireline. 3. Construct fireline to established standards using appropriate tools, equipment, and suppression methods with and without the use of water.
Course Objectives:	1. Describe the purpose of the Standard Firefighting Orders and Watch Out Situations. 2. Describe what the Lookouts, Communications, Escape Routes, and Safety Zones (LCES) system is and how it relates to the Standard Firefighting Orders. 3. Describe the various communication methods and tools used for collecting, producing, and distributing information. 4. Describe the standards, tools and equipment, and various methods used in fireline construction. 5. Describe the methods for extinguishing a fire with or without the use of water. 6. Demonstrate the ability to construct fire line to required standards using various methods, tools and equipment, and techniques.
Major Topics:	I. Incident Management Situation Report (lecture) II. Geographic Area Outlooks (lecture) III. National Weather Service (Fire Weather) (lecture) IV. Interagency Standards for Fire and Fire Aviation Operations (lecture) V. National Interagency Mobilization Guide (lecture) VI. NWCG Standards for Wildland Fire Resource Typing, PMS 200 (lecture) VII. NWCG Standards for Helicopter Operations, PMS 510 (lecture) VIII. 10 and 18 Poster, PMS 110-18 (lecture) IX. 10 and 18 Reference Tool (lecture) X. 10 Standard Firefighting Orders, PMS 110 (lecture) XI. 18 Watch Out Situations, PMS 118 (lecture) XII. Water Handling Equipment Guide, PMS 447-1 (lecture) XIII. Water Handling Equipment Guide, PMS 447-1 (lab) XIV. NWCG Standards for Wildland Fire Resource Typing, PMS 200 (lab) XV. Water Handling Equipment Guide, PMS 447-1 (lab) XVI. The New Generation Fire Shelter, PMS 411 (lab) XVII. El Refugio De Protección Nueva Generación, PMS 411 (lab)
Total Lecture Hours:	29
Total Laboratory Hours:	3
Total Hours:	32
A.1. Primary Methods of Evaluation (Part 1 - CCN courses only):	
Primary Method of Evaluation:	3) Skills demonstration
Typical Assignment Using Primary Method of Evaluation:	Choose three of the standard firefighting orders and in a three to five minutes explain to the class why they are important.

Critical Thinking Assignment 1:	**Scenario:** A lightning strike has ignited a wildfire in a hilly, forested area near a small rural community. The fire is burning in dry grass and brush, with pockets of dense timber on the slopes. Winds are blowing steadily at 15 mph from the southwest, pushing the fire toward a road that serves as a natural firebreak. The forecast predicts increasing temperatures and gusty winds (30 to 35 mph) in the afternoon. • In small groups, use the above scenario to decide where to construct firelines and discuss the following questions: 1. What factors influenced your fireline placement (e.g., slope, wind, fuel type)? 2. What tools and techniques would be most effective in this scenario? 3. What challenges could firefighters face when constructing this fireline? • Use terrain, wind direction, fuel type, and safety considerations to support your decisions.
Critical Thinking Assignment 2:	• Research a past wildfire incident (e.g., Camp Fire, Yarnell Hill Fire). • In a small group discussion, answer the following questions: 1. What were the main causes of fire spread in this incident? 2. What strategies were used to contain the fire? 3. What could firefighters have done differently to improve outcomes?
Other Evaluation Methods:	Completion, Embedded Questions, Laboratory Reports, Matching Items, Multiple Choice, Objective Exam, Presentation, Quizzes, True/False
If Other:	
Instructional Methods:	Demonstration, Discussion, Group Activities, Lab, Lecture, Multimedia presentations
If other:	
Work Outside of Class:	Answer questions, Problem solving activity, Required reading, Study
If Other:	
Up-To-Date Representative Texts:	*Incident Response Pocket Guide (IRPG),* PMS 461, (https://www.nwcg.gov/publications/461) 2023.
Alternative Texts:	
Required Supplementary Readings:	
Other Required Materials:	
Requisite	Prerequisite
Category	sequential
Requisite course:	FTEC 501
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	**Describe the basic terminology used in wildland fire.** FTEC 501: Describe the basic terminology used in wildland fire. **Identify and discuss the fire triangle.** FTEC 501: Identify and discuss the fire triangle **Identify and discuss key characteristics of the primary wildland fire environment components - fuels, weather, and topography.** FTEC 501: Identify and discuss key characteristics of the primary wildland fire environment components - fuels, weather, and topography. **Identify critical fire weather factors that, combined with receptive fuels, may result in extreme fire behavior.**

	FTEC 501: Identify critical fire weather factors that, combined with receptive fuels, may result in extreme fire behavior. **Recognize how the alignment of fuels, weather, and topography can increase the potential for extreme fire behavior.** FTEC 501: Recognize how the alignment of fuels, weather, and topography can increase the potential for extreme fire behavior.
Requisite Skill:	1. Describe the basic terminology used in wildland fire. 2. Identify and discuss the fire triangle. 3. Identify and discuss key characteristics of the primary wildland fire environment components - fuels, weather, and topography. 4. Identify critical fire weather factors that, combined with receptive fuels, may result in extreme fire behavior. 5. Recognize how the alignment of fuels, weather, and topography can increase the potential for extreme fire behavior.
Requisite Skill and Matching skill(s): Bold the requisite skill(s). if applicable	
Requisite course:	
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	
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Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Matthew Kline
Date:	2/5/2025
Original Board Approval Date:	06/26/2025
Effective Term:	FA 2026