

# **COCONINO COMMUNITY COLLEGE**

## **COURSE OUTLINE**

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Status: Permanent

Date: January 6, 1997  
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A. Identification:

1. Subject Area: Fire Science
2. Course Number: FSC 243
3. Course Title: INTERMEDIATE WILDLAND FIRE SUPPRESSION
4. Credit Hrs: 4
5. Catalog Description:

Instructions for Firefighter Type I Training, wildland fire chain saw safety practices, and fire behavior prediction skills and knowledge. Course covers material from S-131, S-212, and S-290. After completion students may qualify for Red Card Certification. Prerequisite FSC 233 or Instructor consent. Four Lecture

B. Course Goals:

Meet the training needs for Firefighter Type I Training, provide the basic skills to safely use chain saws required by NWCG member agencies, and assist those planning to work as a single resource boss on wildland fires.

C. Course Outcomes:

Students will:

1. Demonstrate the ability to use fireline reference tools to facilitate the communication and decision making process.
2. Describe how to incorporate and maintain open lines of communication with appropriate personnel.
3. Demonstrate the ability to apply the standard operating procedures found in the Incident Response Pocket Guide. (PMS 461).
4. Demonstrate the ability to apply the information found in the Fireline Handbook (PMS 410-1)
5. List, define and apply chain saw safety standards as required by OSHA and NWCG member agency manuals, handbooks and directives.
6. Incorporate the approved use, maintenance and function of personal protective equipment in wildland fire chain saw applications.
7. Identify basic chain saw parts nomenclature, maintenance, tuning, troubleshooting, and safety features.
8. Demonstrate field maintenance tasks required for chain saw operation.
9. Demonstrate the tactical application of chain saws in brushing, limbing, bucking and falling for fireline construction and mop up operations.
10. Determine basic input data of terrain, fuels, and weather required for understanding wildland fire behavior for various times of the day and night.
11. Describe the causes of extreme fire behavior conditions (spotting, crowning, firewhirls) developing due to weather, fuels, and/or topography.
12. Access fireline data and fire behavior estimations, and identify areas where fire suppression limitations exist.
13. Describe the conditions which contribute to the occurrence of plume-dominated and wind-driven fires.
14. Describe the combining influences that effect basic wildland fire behavior and should be monitored continuously.
15. List the seven wildland fire environmental factors which must continuously be monitored, and describe indicators of change for each factor.

D. Course Content:

Will Include:

Items identified by the National Interagency Fire Center (NIFC) from courses: S-130, S-212, and S-290 in addition to field activity days and the pack test.