

# ***COCONINO COMMUNITY COLLEGE***

## ***COURSE OUTLINE***

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Status: Permanent

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A. Identification:

1. Subject Area: Fire Science
2. Course Number: FSC 233
3. Course Title: INTRODUCTION TO WILDLAND FIRE SUPPRESSION
4. Credit Hrs: 4
5. Catalog Description:

Provides a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques along with an introduction to the Incident Command System. Covers material from, I-100, I-200, S-130, S-190, CPS, and S-211. After completion, students may qualify for "Red Card" certification. Four lecture.

B. Course Goals:

To provide the students with a basic understanding of wildland fire suppression and an introduction to the incident command system.

C. Course Outcomes:

Students will:

1. List the five major organizational activities within the ICS and explain their function.
2. Give the titles, and explain the duties of Command and General Staff Members.
3. Match organizational units to appropriate Operations, Planning, logistics, or Finance Sections.
4. Match Supervisory titles with appropriate levels within the organization.
5. Describe the terms used to name major incident facilities, and state their functions.
6. Describe what an IAP is and how it is used in an incident.
7. Describe how span of control functions within the incident organization and the use of resources.
8. Describe the common responsibilities associated with the incident or event assignments.
9. Describe several applications for the use of ICS.
10. Describe the need for proper incident resource management.
11. Describe three ways of managing resources and the advantages of each.
12. Explain the purpose of resource typing.
13. Describe the three resource status conditions used at an incident, and purpose and limits with each.
14. Explain how resource status is changed, how notification of changes is made, and how status is maintained at an incident or event.
15. In a small group exercise list various kinds of resources which may be encountered in incidents in which the student is or may become involved.
16. Identify and discuss the three sides of the fire triangle.
17. Identify the environmental factors of wildland fire behavior that affect the start and spread of wildland fire.
18. Recognize situations which indicate problem or extreme wildland fire behavior.
19. Present information about the cause and effect relationship between the atmosphere, forest fuels and changes in fire behavior.
20. Demonstrate how to make proper observations of the fire and fireground and use the information gained to make predictions of fire behavior.
21. Demonstrate how to display trigger points and tracks utilizing map displays.
22. Demonstrate how fire behavior predictions are necessary for developing safe and effective tactical solutions.

23. Select equipment required to maintain a flow of water as required by the incident.
24. Install pump, hose lays, and holding tanks to provide water for use during all phases of the incident.
25. Perform required field maintenance on a portable pump.
26. Explain what the LECS system is and how it relates to the standard firefighting orders.
27. Construct fire-line to required standards using various methods.
28. Strengthen, reinforce, and use holding actions on a fire-line.
29. Extinguish the fire with or without the use of water.
30. Complete tasks in a safe and efficient manner.
31. Given an assignment in a wildland environment, describe factors in that environment which could impact safety.

D. Course Content:

Will include:

Items identified by the National Interagency Fire Center (NIFC) from courses: I-100, I-200, S-130, S-190, CPS, S-211 in addition to field activity days.