



Experience:

1. List your NWCG position qualifications. Include both qualified and trainee positions.
  
2. Give a brief description of your aviation experience and/or duties. For example: helitack experience, previous dispatch experience, flight manager duties, etc.
  
3. Who are your Center Manager and Fire Management Officer? (First and last name)
  
4. Briefly describe the types of dispatch computer software you have experience operating (i.e. Automated Flight Following (AFF), WildCad, ROSS, and etc).
  
5. Submit the following Interagency Aviation Training (IAT) course certificates with your pre-course work. These courses are required as part of the pre-course work for this course.
  - A-100 (Basic Aviation Safety)
  - A-103(FAA NOTAM System)
  - A-109 (Aviation Radio Use)
  - A-115(Automated Flight Following)
  - A-203(Basic Airspace)
  
6. What other Interagency Aviation Training (IAT) courses have you taken?

## Pre-Course Work Questions (200 possible points)

Use your local/regional aviation organization and reference materials to answer the questions. You may also refer to the following guides and web sites:

- National Interagency Mobilization Guide (NFES 2092)
- Interagency Standards for Fire and Fire Aviation Operations (NFES 2724)
- Wildland Fire Incident Management Field Guide (PMS 210 January 2015)
- Interagency Aerial Supervision Guide (NFES 2544 January 2014)
- Interagency Helicopter Operations Guide (NFES 1885 February 2013)
- The reference section in the Aircraft Dispatcher Reference Guide for a list of forms, manuals, handbooks, guides, plans, and other publications.
- Safecom : <https://www.safecom.gov/>
- Lesson Learn: <http://www.wildfirelessons.net/home>
- IAT Glossary: <https://www.iat.gov/>
- NWCG Glossary of Wildland Fire Terminology, (PMS 205)  
<http://www.nwcg.gov/pms/pubs/pubs.htm>

## Pre-work Test

Go to <http://www.airnav.com/airports/> to answer questions 1 – 9 about the Redding, CA Airport.

1. What are the latitude, longitude, and elevation of Redding Municipal Airport? (3 points)
2. What is the FAA three-letter identifier for the airport? (1 point)
3. What is the name of a sectional chart that covers the airport? (1 point)
4. Which Air Route Traffic Control Center (ARTCC) jurisdiction does Redding Airport fall under? (1 point)
  - a. Salt Lake City
  - b. Los Angeles
  - c. Oakland
  - d. Seattle
5. What are the dimensions and surface type for Runway 12/30? (1 point)
6. Using the airport distance calculator found on the Web page, what is the distance from KFAT to Redding? (1 point)
7. What types of Aviation fuels are available at the airport? (1 point)
8. How many Fixed-Wing Base Operators (FBOs) are located at the airport? (1 point)
9. What types of hazards are located around the airport? (1 point)

10. List your agency aviation and fire contacts for the following levels. (4 points)

- a. Local Unit Aviation Officer or Manager (District, Forest, Park, Refuge, etc.): \_\_\_\_\_
- b. Local Unit Fire Management Officer or Manager (District, Forest, Park, Refuge, etc.): \_\_\_\_\_
- c. Regional or State Aviation Officer or Manager: \_\_\_\_\_
- d. Regional or State Fire Director, Officer or Manager: \_\_\_\_\_
- e. National Fire Director, Officer or Manager: \_\_\_\_\_
- f. National Aviation Officer or Manager: \_\_\_\_\_

11. You are an aircraft dispatcher located at a Geographic Area Coordination Center. Indicate whether you would interact with the following individuals (Yes or No). (7 points)

- a. Smokejumper Spotter \_\_\_\_\_
- b. Air Attack \_\_\_\_\_
- c. Expanded Dispatch \_\_\_\_\_
- d. Regional Aviation Officer \_\_\_\_\_
- e. Vendors \_\_\_\_\_
- f. Pilots \_\_\_\_\_
- g. Contracting Officer \_\_\_\_\_

12. Match the terms to the correct statements. (6 points)

- |                                   |  |
|-----------------------------------|--|
| a. Safenet: _____                 | 1. Flights under visual conditions.  |
| b. Airspace Deconfliction: _____  | 2. Control efforts are conducted at the fire perimeter.                                |
| c. Mean Sea Level: _____          | 3. Control efforts are conducted at distance from fire perimeter.                      |
| d. Direct Attack: _____           | 4. Process to reduce the risk of mid-air collision.                                    |
| e. Flight Following: _____        | 5. Height above the surface of the Earth.  |
| f. Visual Flight Rules: _____     | 6. Average height of the surface of the sea.   |
| g. Above Ground Level: _____      | 7. Airspace reserved for special military operations.                                  |
| h. Indirect Attack: _____         | 8. Coordination with in flight aircraft from one location to another.                  |
| i. Military Operation Area: _____ | 9. Airspace reserved for flight operations that are not in a normal civilian category. |
| j. Red Flag Warning: _____        | 10. Process to report safety concerns on an incident.                                  |
| k. Fire Weather Watch: _____      | 11. Weather conditions that could result in critical fire behavior within 48 hours.    |
| l. Special-Use Airspace: _____    | 12. On-going or imminent critical weather conditions.                                  |

13. Choose the most correct statement describing Civil Aircraft. (1 point)
- Aircraft only used in the service of the government.
  - An aircraft performing water dropping operations on a fire.
  - Any aircraft that is not public aircraft.
14. Who has final say on an aircraft flight? (1 point)
15. Drawdown levels are established at what fire organization level. (1 point)
- National
  - Regional
  - Local
  - All of the above
16. What is the purpose of the Fire Operation Doctrine? (1 point)
17. Describe what a second alarm is? (1 point)
18. List five pieces of information an aircraft dispatcher needs to set up a flight:  
(5 points)

19. Select the statement that DOES NOT describe a Public Aircraft. (1 point)
- Any aircraft on more than a 90 day contract.
  - An aircraft performing water dropping operations on a fire.
  - Any aircraft on less than a 90 day contract.
  - Aircraft only used in the service of the government.
20. List the 6 types of Wildland Fire Incident and Accidents. (3 points)
21. Discuss the complexity differences between a Type 4 and Type 3 incident. (3 points)
22. Who can approve the use of retardant and equipment in wilderness area? (1 point)
23. Define the following aviation terms: (9 points)
- Congested Airspace:
  - Initial Attack:
  - Operational Control:

- d. Extended Attack:
  
- e. Safety Alert:
  
- f. Risk Management
  
- g. Special-Use Flight:
  
- h. Entrapment:
  
- i. Point to Point Flight:

24. What is the general incident operation driving policy, as found in the Interagency Standards for Fire and Fire Aviation Operation (RED BOOK)? (3 points)

25. What is the maximum number of consecutive duty hours a pilot may have in any assigned duty period? (1 point)

26. When can more restrictive flight/duty hour limitations be imposed and by whom? (1 point)
  
27. What are the Phase 2 Limitations for pilots, as found in the Interagency Standards for Fire and Fire Aviation Operation? (1 point)
  
28. During any 14 consecutive calendar days, how many calendar days of rest must a pilot be given? (1 point)
  
29. Do incident Work to Rest guidelines apply to pilots? (1 point)
  
30. What three pieces of information should an aircraft dispatcher obtain from an aircraft making a flight following check-in call (using radio or AFF)? (3 points)
  
31. What are three purposes of flight following? (3 points)
  
32. Who is responsible for flight following? (1 point)
  
33. What is the standard interval for mission flight following check-in calls? (1 point)

34. What information should the dispatch center receive from initial size up?  
(List 5) (5 Points)

35. Match the types of aircraft with the correct definition: (3 points)

- |                              |   |
|------------------------------|---|
| a. Cooperator Aircraft: ____ | 1. Any aircraft maintained and operated by an active reserved component of the Department of Defense. |
| b. Government Aircraft: ____ | 2. Any aircraft that the government has operational control over for that flight.                     |
| c. Military Aircraft: ____   | 3. Any affiliated military or other government agency aircraft.                                       |

36. Air tanker start-up time is \_\_\_\_\_ minutes before \_\_\_\_\_ and cut-off time is \_\_\_\_\_ minutes after \_\_\_\_\_. (1 point)

37. The application of retardant needs to be how far away from waterway?  
(1 points)

38. What information should a dispatcher provide to resources responding to a new fire? (List 5) (5 points)

39. Can law enforcement and media enter a Temporary Flight Restriction (TFR) without permission? Explain. (2 points)

40. Match the following frequencies: (5 points)
- |                                     |                         |
|-------------------------------------|-------------------------|
| a. Region 5 Airtanker Base: _____   | 2. 168.6250 Tone: 110.9 |
| b. National Flight Following: _____ | 3. 123.975              |
| c. NIFC Tac 2: _____                | 4. 168.200              |
| d. Air Guard: _____                 | 5. 168.6500 Tone: 110.9 |
41. What are your center protocols for frequency management? (2 points)
42. Procurement regulations require a comparison of how many aircraft for cost comparison? (3 points)
43. You have an incident that is located on a military training route. You have been asked to shut down the route. Can you shut down the route? (1 point)
44. Define the difference between Preparedness Level and Staffing Level. (1 point)
45. What is the purpose of a Lesson Learn Review? (1 point)
46. What is the purpose of the Medical Incident Report (ICS 206)? (2 points)

47. What is the nearest regional burn center to your host dispatch office? How did find that information? (2 points)

48. Who can make the decision on whether a burned firefighter can be sent to a regional burn center? (1 point)

49. What guide is available to assist agency administrators when a serious accident occurs on an incident or home unit? (1 point)

50. Match the reference material with the correct definition: (5 points)

- |  |  |
|--|--|
| a. Manual: ____                        | 1. Provides information not distributed in official regulations and guides.          |
| b. Handbook: ____                      | 2. Information on preferred procedures for a specific aspect of aviation operations. |
| c. Guide: ____                         | 3. Graphical interpretation of daily fire potential.                                 |
| d. Plan: ____                          | 4. General policy statements and responsibilities.                                   |
| e. Fire Danger Rating Pocket Card ____ | 5. “How to” information on procedures, performance, and equipment specifications.    |

51. Why is it important to have manuals, handbooks, and guides in your center? (1 point)
52. What are some of the Military Training Routes (MTR) and Military Operating Areas (MOA) in your area? (1 point)
53. Describe the events that cause the National Preparedness level to move from a level 3 to 4. (2 points)
54. Match the controlled airspaces with the correct definition: (7 points)
- |                  |  |
|------------------|--|
| 1. Class A: ____ | A. Uncontrolled airspace.  |
| 2. Class B: ____ | B. Used for smaller airports that have a control tower.                  |
| 3. Class C: ____ | C. International airspace.   |
| 4. Class D: ____ | D. Not depicted on sectional charts.                                     |
| 5. Class E: ____ | E. Surrounds the busiest airports.                                       |
| 6. Class F: ____ | F. Around airports and military air bases with a moderate traffic level. |
| 7. Class G: ____ | G. Includes a large part of the lower airspace.                          |
55. What are the elements of an After Action Review (AAR)? (2 points)
56. Does your dispatch office have a Continuity of Operations Plan (COOP)?

What are your dispatch office's protocols for power outage? (2 points)

57. Match the terms to the correct situation: (4 points)

- |                                 |   |
|---------------------------------|---|
| a. Aircraft accident: ____      | 1. Aircraft engine will not start.      |
| b. Maintenance deficiency: ____ | 2. Near mid-air collision.              |
| c. Aviation hazard: ____        | 3. Passengers not wearing required PPE. |
| d. Aircraft incident: ____      | 4. Airplane crash with fatalities.      |

58. Indicate the ICS Type for the resource criteria: (7 points)

- a. Air tanker retardant capacity of 799 or less gallons: \_\_\_\_\_
- b. Helicopter that can transport 15 or more passengers: \_\_\_\_\_
- c. Helicopter bucket capacity of 700 or more gallons: \_\_\_\_\_
- d. Air tanker retardant capacity of 1,800-2,999 gallons: \_\_\_\_\_
- e. Helicopter that can transport 3-5 passengers: \_\_\_\_\_
- f. Water Tender with 1000 gallons tank capacity and a pump minimum flow of 200 gpm. \_\_\_\_\_
- g. Crew with a leadership consisting of a Crew Boss, 3 Squad Bosses qualified as ICT5s \_\_\_\_\_

59. Described the difference between a lead plane and an ASM. (2 points)

60. In what city and state is your Geographical Area Cache located? Where did you find this information? (2 points)

61. List three type of incident where you would restrict radio traffic. At what point would your lift radio restrictions? (4 points)
  
62. Explain the No Divert Policy with aircraft. (3 points)
  
63. Can dispatchers request additional frequencies for incidents? (1 point)
  
64. What is the difference between a command frequency and a tactical frequency? (4 points)
  
65. Can the Air Guard frequency be used for routine flight following? Justify your answer. (3 point)
  
66. Describe the role that Initial Attack and Aircraft dispatchers have in supporting extended attack incident? (4 points)
  
67. What is the primary purpose of an Air to Ground Frequency? (2 points)



## Scenarios Exercises

For each scenario below, answer the questions and list the reference source where the applicable regulation **for your agency** is found. Reference sources may include agency directives, aviation manuals, handbooks, guides, FARs, etc.

### Scenario 1:

You receive information that a helicopter is going to fly a mission over your area. They will be flying a grid pattern. You do not have the exact location that they will be working in.

1. Who do you notify? (2 points)
  
  
  
  
  
  
  
  
  
  
2. What additional information would be helpful? (2 points)

Operations seem to be going well throughout the day. At 1630 you hear over the scanner that the helicopter has crashed, you hear and record the location of the aircraft, after plotting it out you realize the helicopter has crashed on your unit.

3. What actions do you take? (2 points)
  
  
  
  
  
  
  
  
  
  
4. Who needs to be notified? (2 points)

### Scenario 2:

Your local fire manager would like to transport the lookout up to Wolf Point lookout next Wednesday. The flight will have to be by helicopter and will require several sling loads of gear. The fire manager has the following questions related to helicopter flight.

5. Can a passenger be transported while the helicopter is carrying a sling load? (2 points)
  
6. What support personnel will be needed for the flight? (2 points)

### Scenario 3:

You have a fire on the border with an adjacent unit; you send a full response of resources to the incident. Once first units are on scene it is determined that the fire is on the adjacent agency.

1. What discussion needs to occur with adjacent agency? (1 point)
  
2. If it is determined that frequencies need to be change when is the appropriate time to change? Is there difference between the times for ground frequencies and aircraft ? (3 point)

Scenario 4:

(Please use Pre-work Scenario 4 map.pdf, to complete the questions)

It's August 2 at approximately 1300. You are sitting on the Aircraft Desk at the Los Padres Communications Center. You receive a phone call from SOPS advising that they just received a phone call from the FAA that a plane called in a smoke and it's plotted out near Chorro Grande CG.

1. What is the legal of the incident? (1 point)
2. What is the Latitude/Longitude of the incident? Covert it to Degree, Decimal Minutes. (2 point)
3. On the map, name the highest point and give elevation. (1 point)
4. List three different jurisdictions on the map? (3 point)
5. What is the best access for resources? (1 point)

FC 106 Form

Using the information from above fill out the FC106 Form attached on the next page. (13 point)

6. Where do you get the Order Number from? (1 point)

7. Who do you need to address on the FS106? (1 point)

**Intercom Aircraft Dispatch Script**

North Ops, and/or South Ops \_\_\_\_\_,  
(Units and Tanker Bases you would Notify), (Your Unit)

New Order

Wait for acknowledgement from each location you contacted.

On Incident Name: \_\_\_\_\_, Order Number: \_\_\_\_\_

Descriptive Location: \_\_\_\_\_  
(Major Landmark, City, Town –recognizable for resource coming from out of the Unit.)

Legal Location: \_\_\_\_\_  
(Section, Township, Range, and Meridian)

Lat/Long: \_\_\_\_\_  
(Degree, Decimal Minute format)

Air Tactics, \_\_\_\_\_; Victor Frequency, \_\_\_\_\_  
(Frequency Name and Number) (Frequency Number)

Air to Ground, \_\_\_\_\_ Ground Tactics, \_\_\_\_\_  
(Frequency Name and Number) (Frequency Name and Number)  
(Freq. # is optional, use if unfamiliar frequency)

Command \_\_\_\_\_  
(Frequency Name, Repeater Tone)  
(Frequency Number is optional use if unfamiliar frequency)

Break (wait for OCC acknowledgement to continue)

On Alpha One – Requesting (or Using if aircraft you direct dispatch) \_\_\_\_\_  
Type of Aircraft

On Alpha Two – \_\_\_\_\_

On Alpha Three - \_\_\_\_\_

On Alpha Four - \_\_\_\_\_

Other Aircraft: \_\_\_\_\_  
(any aircraft at or going to incident not noted above)

Aircraft Hazards: \_\_\_\_\_  
(Power lines, etc.)