



**FOREST SERVICE HANDBOOK
NATIONAL HEADQUARTERS (WO)
WASHINGTON, DC**

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT
QUALIFICATIONS HANDBOOK**

CHAPTER 30 - EQUIVALENCY COURSES

Amendment No.: 5109.17-2002-5

Effective Date: May 21, 2002

Duration: This amendment is effective until superseded or removed

Approved: ROBIN L. THOMPSON
Associate Deputy Chief
for State and Private Forestry

Date Approved: 03/20/2002

Posting Instructions: Amendments are numbered consecutively by Handbook number and calendar year. Post by document; remove the entire document and replace it with this amendment. Retain this transmittal as the first page(s) of this document. The last amendment to this Handbook was 5109.17-2002-4 to 5109.17_25.17-25.36.

New Document	5109.17_30	5 Pages
Superseded Document(s) by Issuance Number and Effective Date	None	

Digest:

30 - Adds a new chapter for direction on equivalency courses.

31 - Adds direction regarding equivalency courses that have been approved by the National Wildfire Coordinating Group (NWCG) Training Working Team as being equivalent to those identified in the NWCG curriculum. Exhibit 01 contains a list of the approved equivalency courses correlated to the courses in the approved NWCG curriculum.

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 30 - EQUIVALENCY COURSES**

Table of Contents

31 - APPROVED EQUIVALENCY COURSES.....3

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
 CHAPTER 30 - EQUIVALENCY COURSES**

31 - APPROVED EQUIVALENCY COURSES

As set out in section 22.3, the Forest Service has identified a process for evaluating a course for National Wildfire Coordinating Group (NWCG) course equivalency. Following evaluation by a Regionally appointed equivalency course Evaluation Team, findings and recommendations are submitted to the NWCG Training Working Team for consideration and approval as equivalency courses.

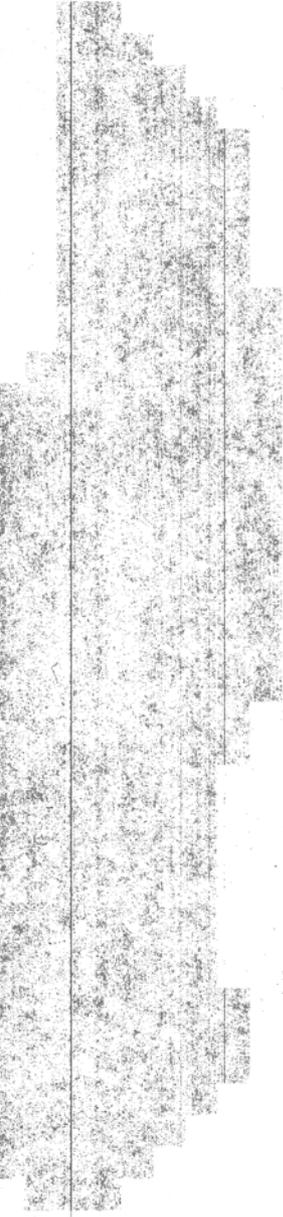
The NWCG Training Working Team has determined the courses listed in exhibit 01 to be equivalent to the identified NWCG course. Persons who have successfully completed the identified equivalency course do not need to attend the NWCG course.

31 - Exhibit 01

<u>NWCG Approved Curriculum</u>	<u>Approved Equivalency Course(s)</u>
Facilitative Instructor (M-410)	NFPA Instructor 1a and 1b
Introduction to Fire Effects (RX-310)	Successful Completion of Technical Fire Management
Fire Suppression Tactics (S-336)	Successful Completion of: Single Resource Boss (S-230, 1996 Version or later) AND Fire Operations in the Urban Interface (S-215) OR Task Force/Strike Team Leader (S-330) AND Fire Operations in the Urban Interface (S-215)
Supervisory Concepts and Techniques (S-281)	Forest Service Corporate Training Practical Leadership Skills for New First-Line Supervisors
Leadership and Organizational Development (S-301)	Fireline Leadership
S-580 Advanced Fire Use Applications	Managing Wildland Fire for Resource Benefits (offered in Region 1). Equivalent for Fire Use Manager 2 only.

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 30 - EQUIVALENCY COURSES**

31 - Exhibit 01--Continued

<u>NWCG Approved Curriculum</u>	<u>Approved Equivalency Course(s)</u>
<p>Interagency Aviation Management and Safety (IAMS)</p> 	<p>Aircraft Conference and Education (ACE). The following modules meet the IAMS equivalent for identified positions:</p> <p><u>Supervisory Dispatcher (EDSP):</u> A-101 Basic Aviation Safety A-104 Aircraft Capabilities and Limitations A-106 Aviation Mishap Reporting A-107 Aviation Policy and Regulations 1 A-109 Aviation Radio Use A-112 Mission Planning and Flight Request Process A-202 Interagency Aviation Organizations A-203 Airspace Management and Coordination A-206 Aviation Acquisition/Procurement 1 A-207 Aircraft Dispatching A-302 Personal Responsibility and Liability A-303 Human Factors in Aviation A-305 Risk Management A-307 Aviation Policy and Regulations II</p> <p><u>Helicopter Manager:</u> A-101 Aviation Safety A-103 Helicopter Safety A-104 Overview of Aircraft Capabilities and Limitations A-105 Aviation Life Support and Equipment A-106 Aviation Mishap Reporting A-107 Aviation Policy and Regulations 1 A-108 Pre-Flight Checklist and Briefing/Debriefing A-111 Flight Payment Document A-112 Mission Planning and Flight Request Process A-113 Crash Survival A-201 Overview of Safety and Accident Prevention A-205 Risk Awareness A-206 Aviation Acquisition/Procurement 1 A-209 Helicopter Operations A-302 Personal Responsibility and Liability A-307 Aviation Policy and Regulations II</p>

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 30 - EQUIVALENCY COURSES**

31 - Exhibit 01

<u>NWCG Approved Curriculum</u>	<u>Approved Equivalency Course(s)</u>
<p>Interagency Aviation Management and Safety (IAMS)</p>	<p>Aircraft Conference and Education (ACE): The following modules meet the IAMS equivalent for identified positions:</p> <p><u>Air Operations Branch Director (AOBD), Air Tactical Group Supervisor (ATGS), Air Tanker Base Manager (ATBM), Air Support Group Supervisor (ASGS), Air Tanker/Fixed Wing Coordinator (ATCO), Ramp Management (RAMP), and Fixed Wing Base Manager (FWBM):</u></p> <ul style="list-style-type: none"> A-101 Aviation Safety A-102 Fixed Wing Safety A-103 Helicopter Safety A-105 Aviation Life Support Equipment A-106 Aviation Mishap Reporting A-107 Aviation Policy and Regulations 1 A-109 Aviation Radio Use A-111 Flight Payment Document A-112 Mission Planning and Flight Request Process A-113 Crash Survival A-201 Overview of Safety and Accident Prevention A-202 Interagency Aviation Organizations A-203 Airspace Management and Coordination A-204 Aircraft Capabilities and Limitations A-206 Aviation Acquisition/Procurement 1 A-211 Aviation Planning A-301 Implementing Aviation Safety and Accident Prevention A-302 Personal Responsibility and Liability A-303 Human Factors in Aviation A-305 Risk Management



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**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT
QUALIFICATIONS HANDBOOK**

CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES

Amendment No.: 5109.17-2002-6

Effective Date: May 21, 2002

Duration: This amendment is effective until superseded or removed.

Approved: ROBIN L. THOMPSON
Associate Deputy Chief
for State and Private Forestry

Date Approved: 03/20/2002

Posting Instructions: Amendments are numbered consecutively by Handbook number and calendar year. Post by document; remove the entire document and replace it with this amendment. Retain this transmittal as the first page(s) of this document. The last amendment to this Handbook was 5109.17-2002-5 to 5109.17_30.

New Document	5109.17_40	11 Pages
Superseded Document(s) by Issuance Number and Effective Date	None	

Digest:

40 - Adds a new Chapter 40, Fire and Aviation Position Competencies.

41 - 41.2 - Adds direction on position competencies in Fire and Aviation Management required by the Forest Service. The exhibits set out specific competencies for Hotshot positions (sec. 41.1) and Exclusive Use Fire Helicopter positions (sec. 41.2).

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

Table of Contents

41 - FIRE AND AVIATION POSITION COMPETENCIES..... 3
41.1 - Hotshot Position Competencies..... 3
41.2 - Exclusive Use Fire Helicopter Position Competencies 8

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41 - FIRE AND AVIATION POSITION COMPETENCIES

The Federal Fire and Aviation Leadership Council has developed the Interagency Fire Program Management Qualifications Standards and Guide, which contains minimum qualification standards for fire and aviation management positions. The Forest Service has determined the following competencies are required to reach full performance in each associated position listed in sections 41.1 and 41.2.

41.1 - Hotshot Position Competencies

41.1 - Exhibit 01

HOTSHOT SUPERINTENDENT

TRAINING:

None

PREREQUISITE EXPERIENCE:

Task Force Leader
AND
 Incident Commander Type 4
AND
 Ignition Specialist Type 2

PHYSICAL FITNESS:

Arduous

*Desired fitness goals also include completing:

1.5-mile run in a time of 10:35 or less

AND

Forty sit-ups in sixty seconds

AND

Twenty-five push-ups in sixty seconds

AND

Four chin-ups (>170 lbs. body weight)

Five chin-ups (135-170 lbs. body weight)

Six chin-ups (110-134 lbs. body weight)

Seven chin-ups (<110 lbs. body weight)

* Contained in the National Interagency Hotshot Operations Guide. These fitness goals are desired in hotshot positions; however, they are not required.

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41.1 - Exhibit 01--Continued

HOTSHOT ASSISTANT SUPERINTENDENT/CAPTAIN

TRAINING:

None

PREREQUISITE EXPERIENCE:

Strike Team Leader (Crew)

AND

Incident Commander Type 4

PHYSICAL FITNESS:

Arduous

*Desired fitness goals also include
completing:

1.5-mile run in a time of 10:35 or less

AND

Forty sit-ups in sixty seconds

AND

Twenty-five push-ups in sixty seconds

AND

Four chin-ups (>170 lbs. body weight)

Five chin-ups (135-170 lbs. body weight)

Six chin-ups (110-134 lbs. body weight)

Seven chin-ups (<110 lbs. body weight)

* Contained in the National Interagency Hotshot Operations Guide. These fitness goals are desired in hotshot positions; however, they are not required.

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41.1 - Exhibit 01--Continued

HOTSHOT SQUAD LEADER

TRAINING:

None

PREREQUISITE EXPERIENCE:

Single Resource Boss (Crew), Trainee
AND
Incident Commander Type 5

PHYSICAL FITNESS:

Arduous

*Desired fitness goals also include
completing:

1.5-mile run in a time of 10:35 or less

AND

Forty sit-ups in sixty seconds

AND

Twenty-five push-ups in sixty seconds

AND

Four chin-ups (>170 lbs. body weight)

Five chin-ups (135-170 lbs. body weight)

Six chin-ups (110-134 lbs. body weight)

Seven chin-ups (<110 lbs. body weight)

* Contained in the National Interagency Hotshot Operations Guide. These fitness goals are desired in hotshot positions; however, they are not required.

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41.1 - Exhibit 01--Continued

HOTSHOT SENIOR FIREFIGHTER

TRAINING:

None

PREREQUISITE EXPERIENCE:

Advanced Fire Fighter/Squad Boss

AND

Incident Commander Type 5

Desirable skills which may include:

Class C Faller

OR

Emergency 1st Responder

OR

Helicopter Crewmember

PHYSICAL FITNESS:

Arduous

*Desired fitness goals also include
completing:

1.5-mile run in a time of 10:35 or less

AND

Forty sit-ups in sixty seconds

AND

Twenty-five push-ups in sixty seconds

AND

Four chin-ups (>170 lbs. body weight)

Five chin-ups (135-170 lbs. body weight)

Six chin-ups (110-134 lbs. body weight)

Seven chin-ups (<110 lbs. body weight)

* Contained in the National Interagency Hotshot Operations Guide. These fitness goals are desired in hotshot positions; however, they are not required.

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41.1 - Exhibit 01--Continued

HOTSHOT CREWMEMBER

TRAINING:

None

PREREQUISITE EXPERIENCE:

Satisfactory position performance as a
Firefighter Type 2

PHYSICAL FITNESS:

Arduous

*Desired fitness goals also include
completing:

1.5-mile run in a time of 10:35 or less

AND

Forty sit-ups in sixty seconds

AND

Twenty-five push-ups in sixty seconds

AND

Four chin-ups (>170 lbs. body weight)

Five chin-ups (135-170 lbs. body weight)

Six chin-ups (110-134 lbs. body weight)

Seven chin-ups (<110 lbs. body weight)

* Contained in the National Interagency Hotshot Operations Guide. These fitness goals are desired in hotshot positions; however, they are not required.

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41.2 - Exclusive Use Fire Helicopter Position Competencies

41.2 - Exhibit 01

EXCLUSIVE-USE FIRE HELICOPTER CREW SUPERVISOR

TRAINING:

- LEVEL 1** I-300 Intermediate Incident
Command System
- LEVEL 2** S-301 Leadership and
Organizational
Development
OR
Fireline Leadership
- LEVEL 3** Aviation Conference and
Education (ACE)
S-300 Incident Commander
Extended Attack
S-378 Air Tactical Group
Supervisor
S-390 Introduction to Wildland
Fire Behavior Calculations

CERTIFICATION:

Attendance at a Helicopter Manager
Workshop every other year

PREREQUISITE EXPERIENCE:

Exclusive-Use Assistant Helicopter Crew
Supervisor
OR
Call-when-needed Helicopter Manager
AND
Helibase Manager 2 (T)
AND
Experience in Aviation Contract
Administration
AND
Satisfactory performance as an exclusive use
Helicopter Crewmember

PHYSICAL FITNESS:

Arduous

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41.2 - Exhibit 01--Continued

EXCLUSIVE-USE ASSISTANT FIRE HELICOPTER CREW SUPERVISOR

TRAINING:

- LEVEL 1** S-371 Helibase Manager
*S-372 Interagency Helicopter
Manager
- LEVEL 2** S-281 Supervisory Concepts and
Techniques
OR
Forest Service Corporate Training
Practical Leadership Skills for
New First-Line Supervisors
- LEVEL 3** Regional Aviation Contract
Administration Aviation
Conference and Education
(ACE)
I-300 Intermediate Incident
Command System
S-301 Leadership and
Organizational
Development
OR
Fireline Leadership

CERTIFICATION:

Attendance at a Helicopter Manager
Workshop every other year

PREREQUISITE EXPERIENCE:

Incident Commander Type 4
AND
Satisfactory position performance as a
Helicopter Manager
AND
Experience in Aviation Contract
Administration

PHYSICAL FITNESS:

Arduous

*S-372 Interagency Helicopter Manager is in the initial states of course development.
Anticipated release of the course materials will be in 2003 or 2004.

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41.2 - Exhibit 01--Continued

EXCLUSIVE-USE FIRE HELICOPTER SQUAD LEADER

TRAINING:

LEVEL 1 S-211 Portable Pumps and Water
Use

LEVEL 3 Regional Aviation Contract
Administration
I-200 Basic Incident Command
System
S-200 Initial Attack Incident
Commander
S-215 Fire Operations In The
Urban Interface
S-230 Crew Boss
S-234 Ignition Operations
S-260 Interagency Incident
Business Management
S-270 Basic Air Operations
S-371 Helibase Manager

PREREQUISITE EXPERIENCE:

Advanced Fire Fighter/Squad Boss
AND
Helicopter Crewmember
AND
Incident Commander Type 5
AND
Desired experience in Contract
Administration

PHYSICAL FITNESS:

Arduous

**FSH 5109.17 - FIRE AND AVIATION MANAGEMENT QUALIFICATIONS HANDBOOK
CHAPTER 40 - FIRE AND AVIATION MANAGEMENT POSITION COMPETENCIES**

41.2 - Exhibit 01--Continued

EXCLUSIVE-USE FIRE HELICOPTER CREWMEMBER

TRAINING:

LEVEL 1 S-271 Interagency Helicopter
Training

LEVEL 3 S-131 Advanced Firefighter
S-133 Look Up, Look Down,
Look Around
S-211 Portable Pumps and Water
Use
S-212 Wildfire Power Saws
S-281 Supervisory Concepts and
Techniques

OR

Forest Service Corporate Training
Practical Leadership Skills for
New First-Line Supervisors

PREREQUISITE EXPERIENCE:

Firefighter Type 2

AND

Satisfactory position performance as a
Helicopter Crewmember

PHYSICAL FITNESS:

Arduous
