

MOUNTAIN FLYING TRAINING AND CERTIFICATION

WYOMING WING CIVIL AIR PATROL

2023

I. DIRECTIVE and AUTHORITY: The Rocky Mountain Region Supplement to CAPR 70-1, *CAP Flight Management*, mandates the establishment of Wing-level Mountain Flight Training programs.

II. REGULATIONS and STANDARDS:

- CAP Regulation 60-3, *CAP Emergency Services Training and Operational Missions*
- CAP Regulation 70-1, *CAP Flight Management*
- CAP Standard 71-1, *Aircrew Training, Airplane*,
- CAP Standard 71-7, *Pilot Flight Clinics*

III. OBJECTIVES: This document,

- Describes the Mountain Flying Training (MFT), and Mountain Flying Certification (MFC) and requirements for the Wyoming Wing (WYWG).
- Identifies pilot limitations based on training received.
- Defines the ground and flight instruction necessary to ensure WYWG pilots have the required skills to safely and effectively fly over and in mountainous terrain and land in mountainous terrain airports listed in the FAA Chart Supplement.

IV. DEFINITIONS:

- “Mountainous Terrain” refers to all terrain at or exceeding 8,000 feet Mean Sea Level.
- “MFT” identifies the skills and requirements necessary to safely operate CAP aircraft over mountainous terrain. Training leads to a Mountain Flight Endorsement on a CAPF 70-5. This training applies to all pilots in the WYWG.
- “MFC” identifies the skills and requirements necessary to safely operate CAP aircraft for search in mountainous terrain. Training leads to MFC in the SQTR. This training and certification apply to all SAR/DR Mission Pilots in the WYWG.

V. WYOMING WING GUIDANCE: According to the Wyoming Wing Memo dated 1 Oct 2022 (Same subject), the following guidance is provided:

- MFT is mandatory instruction for all WYWG pilots before flying over mountainous terrain in Wyoming. The Mountain Flying Endorsement, initially issued on a CAPF 70-5 by a WYWG Check Pilot after reviewing the Mountain Ground and Flight curricula along with the pilot’s background and experience, signifies completion of the training.
- VFR/TMPs receive initial MFT qualification after completing the Mountain Ground and Flight Training. Final signoff is on the CAPF 70-5.

- Mountain Flight Certification (MFC) is a required SQTR instruction to allow SAR/DR Mission Pilots to search in close proximity to mountainous terrain. Completing a CAPF 70-91, SAR/DR Mission Pilot) is a prerequisite for completing the Mountain Flying Certification SQTR. This document addresses and details the ground and flight training required in the MFC SQTR. The qualification requires completing all ground and flight sorties outlined in the WYWG Mountain Flight Training and completing the MFC SQTR.

VI. LIMITATIONS:

1. WYWG Pilots who are not Mountain Flight Trained (MFT), may not fly over mountainous terrain, defined as all terrain at or exceeding 8,000 feet Mean Sea Level.
2. WYWG Pilots who are Mountain Flight Trained, may not fly lower than 2,000 feet above ground level.
3. SAR/DR Mission Pilots may not fly lower than 2,000 feet AGL until Mountain Flight Certified (MFC).

VII. TRAINING PLAN:

1. References:

- *Mountain Fury – Pilots Ground School Handout Search Pilots Qualification Course*
 - Aurora Publications Copyright 1999 by Sparky Imerson
- *Mountain Fury – Mountain Search Pilot Course Guide*
 - Aurora Publications Copyright 1998 by Sparky Imerson
- *Mountain Fury completed Instructor Led Course and Exam*
 - CAP eServices, Learning Management System, AXIS, Power Point Slides
- *Rocky Mountain Region Mountain Flight Training and Certification*
 - <https://rmr.cap.gov/staff/mission-support/operations/mission-training2>

2. Material: Established Mountain Flight Training curricula, including the full content of:

- **WYWG Webpage:** The Mountain Flying material is located under STAN/EVAL on the WYWG website: <https://wywg.cap.gov/wy-staff-areas/operations/staneval>
- **Handbook:**
https://wywg.cap.gov/media/cms/Mountain_Fury_Search_Pilot_PGS_Hand_99B398AA2FC4F.pdf
- **The Course Guide:**
https://wywg.cap.gov/media/cms/Mountain_Fury_Search_Pilot_Course_08E0D7A66580E.pdf
- **Power Point Slides:** <https://rmr.cap.gov/staff/mission-support/operations/mission-training2>

VIII. Mountain Flying Endorsement: The WYWG-led MFT program consists of ground training, flight training and annual recurring training. Training and a CAPF 70-5 endorsement are achieved by meeting the following criteria:

a. Ground Training (All Pilots):

- The ground training portion of the MFT requirement can be fulfilled by attending and completing any of the courses below. Proof of attendance must be uploaded into the eServices Ops Quals 'Pilot' tab.
 - WYWG-led Mountain Fury Ground School,
 - Attending/completing any other RMR Instructor-led Mountain Flying Ground School,
 - The Mountain Flight Training in AXIS.
 - Any other comprehensive Mountain Flying Course (AOPA, FAA, etc.)
 - Curriculum: The Mountain Flight Ground Training Course shall cover the following elements:
 - Safety
 - High Altitude
 - Aircraft Performance
 - Mountain Weather
 - Mountain Flying - Written Exam with an 80% passing rate

b. Flight Training (Initial CAPF 70-5 Pilots):

- The flight training portion of the MFT requirement leading to a CAPF 70-5 endorsement can be fulfilled by completing one or more mountain flying training sorties.
- Flying sorties shall contain elements and discussions on:
 - Ridge crossing,
 - Canyon flight,
 - Weather,
 - Winds,
 - Density altitude,
 - Aircraft performance,
 - Weight/balance,
 - Hazards,
 - limitations (30 knots max winds, 300'/minute min rate of climb, 2,000' AGL),
 - Decision-making.
- Complete all training prior to completing the CAPF 70-5.
 - Complete initial training along with On-Boarding or Return-to-Flight sorties.

IX. Mountain Flying Certification: The WYWG MFC program consists of ground training, flight training and bi-annual recurring training. All SAR/DR Mission Pilots require MFC and must complete a CAPF 70-91 (Mission Pilot) check ride to fly search missions in mountainous terrain.

NOTE: SAR/DR Pilot and Commander's approval are prerequisites for the MFC SQTR.

Certification is achieved by passing a CAPF 70-91, then completing training and the MFC SQTR. Training and certification are administered by an MFC SET. The MFC SET shall update the CAPF 70-91 pilot's SQTR in Ops Quals after the check ride.

a. Ground Training (SAR/DR Pilots):

- The ground training portion of the MFC requirement can be fulfilled by attending and completing any of the courses listed below. Proof of attendance must be uploaded into the eServices Ops Quals 'Pilot' tab.
- Curriculum: Mountain Flight Ground Training Certification Course shall contain all the elements of the MFT and include:
 - Mountain Searching - Written Exam with an 80% passing rate

b. Flight Training (Initial CAPF 70-91 Pilots):

- The flight training portion of the MFC requirement leading to a SQTR endorsement can be fulfilled by completing one or more mountain flying training sorties.
- Flying sorties shall contain elements and discussions of the Mountain Flight Endorsement plus:
 - Escape from downdrafts,
 - Course reversals
 - Mountain search techniques (contour, canyon, drainage, canyon turns, etc.).

X. Recurring Training: Recurring MFT in the WYWG occurs on the following schedule:

- a. Mountain Flight Endorsement:** Annually along with the CAPF 70-5.
- b. Mountain Flight Certification:** Biannually along with the CAPF 70-91.

OPR:

WYWG/DOS

Approval(s):

Rodney Burnett, Lt Col, CAP, 20 June 2023

WYWG/DO

V. Scott May, Lt Col, CAP, 24 June 2023

RMR/DO