

San Bernardino County Sheriff's Specialized Enforcement Division SWAT Aerial Operations Instructor Course (40 hour)

Effective:

Aerial Operations Instructor

GOALS AND OBJECTIVES

The purpose of this course is to train peace officers the necessary skills and knowledge to be able to instruct, facilitate, and deploy in an aerial operations capacity during SWAT incidents. This course will cover a multitude of areas in which the individual must have a high level of competency and be able to demonstrate and instruct the skills learned during the course. The focus of the areas to be instructed on are covered by POST SWAT guidelines for Aerial Operations Instructor Course which are as follows. Instructors for the course will facilitate this learning through classroom and practical application of the core competencies. In addition there will be testing to address the core competencies. Those that complete the course in addition to an approved SWAT school, Tactical Rope Access Course, SWAT Aerial Operations Course, and Academy Instructor Certification Course would be able to instruct SWAT personnel on how to conduct aerial operations during SWAT incidents.

- I. Welcome
- II. Safety Issues
- III. Tactical Aerial Operational Concepts
- IV. Aviation method of operations and common mission profiles
- V. Aircraft Deployment Methods
- VI. Aerial Operations Instruction Methods
- VII. Aerial Operations with Outside Agencies
- VIII. Aerial Operations Testing

I. LEARNING NEED

Aerial Operations Instructors must know and practice all procedures for safety during training and operations.

LEARNING OBJECTIVES

- A. State the four fundamental rules of firearms safety
 1. Treat all firearms as if they are loaded
 2. Always keep the firearms pointed in the safest possible direction
 3. Always keep finger off the trigger until ready to fire the firearm
 4. Be sure of the target and what's beyond it before firing the firearm

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- B. Explain basic safety guidelines to be followed at a training range though TSO briefing.
 - 1. When entering the training range
 - a. Range safety brief
 - b. Listen carefully for range commands
 - c. Request clarification if a command is not clear
 - c. Wear approved protective equipment
 - 2. During training evolutions
 - a. Listen carefully for range commands
 - b. Request clarification if a command is not clear
 - c. Keep weapons pointed in a safe direction
 - d. Talk only when instructor speaks directly to student
 - e. Never proceed into aircraft landing zones except when commanded to do so
 - f. Ensure students wear retention lanyards when riding in an aircraft with open doors
 - g. Ensure all equipment is retained and there are no foreign object debris hazards in the landing zone
 - h. Follow all instructor, aircrew, or TSO commands
- C. Explain basic safety guidelines to be followed during operations
 - 1. Medical Emergencies
 - a. Trauma kit and medical equipment location on ranges
 - b. Emergency phone location on ranges

II. LEARNING NEED

Aerial Operations Instructors must know the workings, the capabilities, and limitations of aerial assets, and understand proper implementation into tactical operations in order to facilitate aerial operations safely and effectively.

LEARNING OBJECTIVES

- A. Describe types of law enforcement airframes including:
 - 1. Light (Patrol) Helicopters
 - a. Nomenclature
 - b. Operation
 - c. Special Consideration

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2. Medium Helicopters
 - a. Nomenclature
 - b. Operation
 - c. Special Consideration
 3. Fixed Wing Aircraft
 - a. Nomenclature
 - b. Operation
 - c. Special Consideration
- B. Describe aircraft inventory and capabilities
1. Light (Patrol) Helicopters
 - a. Crew requirements
 - b. Available equipment
 2. Medium Helicopters
 - a. Crew requirements
 - b. Available equipment
 3. Fixed Wing Aircraft
 - a. Crew requirements
 - b. Aircraft availability
 - c. Aircraft equipment

III. LEARNING NEED

Aerial Operations Instructors must understand the different mission profiles and proper implementation of SWAT personnel during incidents requiring aerial response.

LEARNING OBJECTIVES

- A. Light (Patrol) Helicopter Operations
1. Overwatch operations
 - a. Rural operations
 - b. Vehicle pursuit
 - c. Landing zone security
 - d. Emergency aerial engagement
 2. Insertion Operations
 - a. Rapid insertions
 - b. Hover-step

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3. Emergency Medical Evacuation
 - a. Ground evacuation (MEDIVAC)
 - b. Hoist evacuation
- B. Light aircraft operational fundamentals
1. Overwatch
 - a. Safety considerations
 - b. Communication
 - c. Emergency procedures
 - d. Emergency engagements
 2. Rapid Insertion
 - a. Safety considerations
 - b. Communication
 - c. Emergency procedures
 - d. Proper deployment technique
 - e. Emergency engagements
 3. Hover-Step
 - a. Safety considerations
 - b. Communication
 - c. Emergency procedures
 - d. Proper deployment technique
 4. Emergency Medical Evacuation
 - a. Safety considerations
 - b. Communication
 - c. Proper loading technique
- C. Medium helicopter operations
1. Insertion Operations
 - a. Rapid insertions
 - b. Hover-step
 - c. Fastrope
 - d. Landing Zone setup
 2. Emergency Evacuation
 - a. Ground evacuation
 - b. Hoist evacuation

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- D. Medium helicopter operational fundamentals
 - 1. Rapid Insertion
 - a. Safety considerations
 - b. Communication
 - c. Emergency procedures
 - d. Proper deployment technique
 - e. Emergency engagements
 - 2. Hover-Step
 - a. Safety considerations
 - b. Communication
 - c. Emergency procedures
 - d. Proper deployment technique
 - 3. Fast Rope
 - a. Safety considerations
 - b. Proper mounting of fast rope arm and rope
 - c. Communication
 - d. Emergency procedures
 - e. Proper deployment technique
 - f. Emergency engagements
 - e. Coordination with overwatch elements
 - 4. Hoist Rescue
 - a. Safety considerations
 - b. Communication
 - c. Emergency procedures
 - d. Proper patient packaging
 - e. Proper hoist management

IV. LEARNING NEED

Aerial deployment instructors must demonstrate aerial deployment fundamentals through practical application and demonstrate a thorough understanding of aerial deployment operations.

LEARNING OBJECTIVES

- A. Practical Application of Aerial Operational Fundamentals
 - 1. Light (Patrol) Helicopter

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- a. Student will demonstrate ability to properly configure a patrol helicopter for use during tactical operations.
 - b. Student will demonstrate their ability to board a patrol aircraft which is under power.
 - c. Student will demonstrate their ability to safely attach their retention lanyard to an aircraft hardpoint.
 - d. Student will demonstrate their ability to attach their communications equipment to the patrol helicopter communications system.
 - e. Student will demonstrate their ability to properly communicate with air crew.
 - f. Student will demonstrate their ability to properly disembark the aircraft during a rapid insertion.
 - g. Student will demonstrate their ability to properly disembark the aircraft during a hover step insertion.
 - h. Student will demonstrate their ability to load an injured person into the patrol helicopter during a medical emergency.
 - i. Student will demonstrate their ability to safely engage an emergent threat from the aircraft.
2. Medium Helicopter
- a. Student will demonstrate ability to properly configure a medium lift helicopter for use during tactical operations.
 - b. Student will demonstrate their ability to conduct a safety inspection of a medium lift helicopter prior to use during a tactical operation.
 - c. Student will demonstrate their ability to board a medium lift aircraft which is under power.
 - d. Student will demonstrate their ability to attach their communications equipment to the medium lift helicopter communications system.
 - e. Student will demonstrate their ability to properly communicate with air crew.
 - f. Student will demonstrate their ability to properly disembark the aircraft during a rapid insertion.
 - g. Student will demonstrate their ability to properly disembark the aircraft during a hover step insertion.
 - h. Student will demonstrate their ability to act as a facilitator during a hover step insertion.
 - i. Student will demonstrate their ability to properly secure and inspect the fast rope arm and fast rope to a medium lift helicopter.

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- j. Student will demonstrate their ability to facilitate a fast rope insertion from a medium lift helicopter.
 - k. Student will demonstrate their ability to facilitate a hoist rescue as a ground rescuer utilizing a helicopter.
 - l. Student will demonstrate their ability to properly secure a patient for a hoist rescue from a helicopter.
 - m. Student will demonstrate their ability to load an injured person into the patrol helicopter during a medical emergency.
3. Fast Rope Stanchion Facilitation
- a. Student will set up a training fast rope stanchion to provide fast rope training for personnel without utilizing an aircraft.
 - b. Student will demonstrate their ability to conduct a safety inspection of the stanchion and ensure there are no hazards.
 - c. Student will demonstrate their ability to safely mount a fast rope to the stanchion.
 - d. Student will demonstrate their ability to mount edge restrict safety equipment for students and instructors during fast rope stanchion training.

V. LEARNING NEED

Aerial Operations Instructors must demonstrate their ability to provide instruction regarding SWAT aerial operations.

LEARNING OBJECTIVES

- A. Fast rope Stanchion
- B. Light (Patrol) Helicopter
 - 1. Rapid Insertion
 - a. Student will provide simulated instruction to other students and provide operator level training regarding aerial operations involving rapid insertion from patrol helicopters.
 - b. The student will be evaluated regarding their ability to address the core competencies needed to operate as a

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tactical team member during aerial operations involving rapid insertion from patrol helicopters.

- c. The student will be evaluated on their ability to ensure the helicopter is configured safely for students.

2. Hover-Step

- a. Student will provide simulated instruction to other students and provide operator level training regarding aerial operations involving hover step insertions from patrol helicopters.
- b. The student will be evaluated regarding their ability to address the core competencies needed to operate as a tactical team member during aerial operations involving hover step insertion from patrol helicopters.
- c. The student will be evaluated on their ability to ensure the helicopter is configured safely for students.

- C. Medium Lift Helicopter

1. Rapid Insertion

- a. Student will provide simulated instruction to other students and provide operator level training regarding aerial operations involving rapid insertion from medium lift helicopters.
- b. The student will be evaluated regarding their ability to address the core competencies needed to operate as a tactical team member during aerial operations involving rapid insertion from medium lift helicopters.
- c. The student will be evaluated on their ability to ensure the helicopter is configured safely for students.

2. Hover-Step

- a. Student will provide simulated instruction to other students and provide operator level training regarding aerial operations involving hover step insertions from medium lift helicopters.
- b. The student will be evaluated regarding their ability to address the core competencies needed to operate as a tactical team member during aerial operations involving hover step insertion from medium lift helicopters.
- c. The student will be evaluated on their ability to ensure the helicopter is configured safely for students.

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3. Fast Rope
 - a. Student will provide simulated instruction to other students and provide operator level training regarding aerial operations involving fast rope insertions from medium lift helicopters.
 - b. The student will be evaluated regarding their ability to address the core competencies needed to operate as a tactical team member during aerial operations involving fast rope insertion from medium lift helicopters.
 - c. The student will be evaluated on their ability to ensure the helicopter is configured safely for students.
 - d. The student will be evaluated on their ability to safely facilitate a fast rope insertion to ensure student's safe departure from the aircraft
 - e. Student will be evaluated on their ability to manage a fallen fast roper during a fast rope insertion.

VI. LEARNING NEED

Aerial Operations Instructors must have a working understanding of helicopters in the local area which may be encountered during tactical operations.

LEARNING OBJECTIVES

- A. Private air ambulance helicopters
 1. Operational concepts and understanding
 - a. Response procedures
 - b. Capabilities
 - c. Communication protocol
 - d. Special considerations
 - e.
- B. Military aircraft
 1. Military Aircraft
 - a. Response procedures
 - b. Capabilities
 - c. Communication
 - d. Special considerations
 - e. Types and availability

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VII. REQUIRED TESTS

San Bernardino County Sheriff's Department, Aerial Operations Instructor
Written Test

The written test will consist of 25 multiple choice questions consisting of material throughout the course and must be passed with a minimum of 90 percent.

VIII. HOURLY REQUIREMENTS

Students shall be provided with a minimum number of instructional hours on firearms/chemical agents

<u>Description</u>	<u>Hours</u>
Agency Specific Hours	<u>40</u>
Total Instructional Hours	<u>40</u>