

FEDERAL FIRE SAN DIEGO

AIRPORT RESCUE FIREFIGHTER TASKBOOK



Name: _____	Rank: _____
Station: _____	Date: _____

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The Federal Fire Department ARFF Committee has developed this Task Book to provide a training format and certification of the minimum skill level needed to successfully serve as an Airport Rescue Firefighter. The task book program is a performance based system. This system is one in which the primary criteria for qualification is individual performance as observed by an evaluator using approved standards. Career Development Position Task Books are the primary tool for observing and evaluating performance. These books contain “approved standards” in the form of tasks, which have been established by the Federal Fire Departments current SOP’s.

Career Development Position Task Books have been developed for various positions within the Federal Fire Department. Each Task book lists the performance requirements for the specific position in a format that allows the trainee to be evaluated relative to written guidelines.

To achieve certification, the applicant must successfully complete **ALL** task and job performance requirements listed in this Task Book.

Before a certification can be issued, successful job performance of all sections must be observed and recorded by a qualified and approved trainer.

These job performance requirements serve as general guidelines. Training shall follow department standard operating procedures.

There is a six-month time restriction from beginning a certification to the time of completion. If a trainee does not complete the certification in the six-month time limit, they must start the entire process over. The completed Task Book must be received by the Training Captain, Operations Chief or Training Chief no later than thirty (30) days after completion of training.

Instructions:

- Trainer:
 1. Must be an Engineer or higher, certified on the apparatus and possess a current license with appropriate endorsement(s), before conducting any training.
 2. Ensure that all information, dates, and hours are recorded accurately in this Task Book.

- Trainee:
 1. When all Task Book information has been documented, obtain required signatures and forward the completed Task Book to the Training Chief or Battalion Training Captain.

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TIMEFRAME FOR COMPLETING A POSITION TASK BOOK

The time frame that an individual takes to complete the task book may vary individual to individual. In most cases, the task book will be completed within 6 months. In no case will an employee be put in a position, acting or otherwise, without having successfully completed the task book for that position. This does not apply in the case of Firefighter, as the employee is hired prior to the task book being issued.

RESPONSIBILITIES

DEPARTMENT

1. Establish and implement the Position Task Book Program
2. Maintain the program to meet department needs

TRAINING DIVISION OR DESIGNATED TRAINER

1. Issue Task Book to candidate
2. Review purpose and responsibilities with employee
3. Confirm task book completion
4. Forward to training
5. Conduct closeout interview with employee and supervisor to confirm paperwork is complete
6. Document completion of task book
7. Maintain a copy of completed task book in the training file

EVALUATOR

1. Be qualified and proficient in the position being evaluated
2. Meet with candidate and determine past experience, current qualifications, and desired goal objectives
3. Review tasks with candidate
4. Explain to candidate the evaluation procedures that will be utilized
5. Identify tasks to be performed during the evaluation process
6. Initial and date tasks completed and evaluated
7. Sign the verification statement inside the front cover of the task book following satisfactory completion of all tasks

CANDIDATE

1. Review and understand the instructions in the task book
2. Identify personal goals and objectives
3. Satisfactorily complete all tasks for the position
4. Assure all records are complete
5. Notify the Assistant Chief when the task book has been completed
6. Maintain a copy of the completed task book in personal file

Each task must be signed & dated by a Captain or Engineer whom is ARFF certified and qualified. Signing official must also legibly print name.

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COMMUNICATIONS

Identify areas of Airfield Communications and demonstrate Hand Signals.

COMPLETED BY DISCUSSION

- A. Ability to identify the 2 communication frequencies used on the Airfield
- B. Ability to identify the 6 points of information given by Tower during airfield emergencies
- C. Ability to identify and define the 3 states of Airfield Emergencies
- D. Discuss Hazard Electromagnetic Radiation to Ordinance Program (HERO) and Understanding of Procedures

COMPLETED BY PERFORMANCE

- A. Ability to identify location and proper use of crash phones at FFD Stations 11,12 & 14 and to make contact via radio to dispatch and tower

Demonstrate HAND SIGNALS for the following:

- B. Hot Brakes
- C. Engine Fire
- D. Approaching Aircraft
- E. I have Command
- F. Brakes On
- G. Brakes Off
- H. Hook Up
- I. Hook Down
- J. Rewind Gear
- K. Insert Chocks
- L. Remove Chocks
- M. Insert Pins
- N. Remove Pins
- O. Cut Engines

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ARFF VEHICLE FAMILIARIZATION & EQUIPMENT

COMPLETED BY DISCUSSION

- A. Ability to identify Water & Foam Capacities on each in service ARFF vehicle
- B. Ability to identify GPM & PSI of each in service ARFF vehicle roof/bumper turrets high/low flow
- C. Ability to identify location of crash kit and contents within and uses of each tool
- D. Ability to identify location and uses of various tools and equipment on in-service ARFF vehicles
- E. Discuss knowledge, uses & types of portable extinguishers located on ARFF vehicles
- F. Ability to identify location and type of rescue saw. Demonstrate ability to start, refuel and change saw blades.

COMPLETED BY PERFORMANCE

- A. Ability to identify length of in-service ARFF vehicle cross beds as well as GMP/PSI at nozzle. Deploy/load cross beds
- B. Ability to identify length and type of ladders carried on each in-service ARFF vehicle. Deploy/stow ladders
- C. Ability to identify length/type/psi of dry chemical hand line. Location nitrogen tank and deploy/load dry chemical hand line
- D. Ability to identify location and use of various tools and equipment on in-service ARFF vehicles
- E. Demonstrate the user of aircraft pins
- F. Demonstrate the use of heat gun
- G. Demonstrate the use of TIC

COMPLETED BY QUIZ

NORTH ISLAND – STRIKER 4X4 OSHKOSH | ARFF CRASH TRUCKS ISLAND 25 & 30

- | | | | |
|-----------------------------|---------------|----------------------------------|---------------|
| A. Water Tank (gallons) | _____ | G. Cross beds (GPM/PSI) | _____ / _____ |
| B. Foam (gallons) | _____ | H. Cross beds (length & gauge) | _____ & _____ |
| C. Fuel (gallons) | _____ | I. Dry Chemical (length & gauge) | _____ & _____ |
| D. Bumper Turret (low/high) | _____ / _____ | J. Dry Chemical (PSI) | _____ |
| E. Roof Turret (low/high) | _____ | K. Extension Ladder (length) | _____ |
| F. Pump (GPM/PSI) | _____ / _____ | L. Straight Ladder (length) | _____ |

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SAN CLEMENTE ISLAND – SCI E-ONE P-701 | ARFF CRASH TRUCKS ISLAND 31 & 32

- | | | | |
|-----------------------------|---------------|----------------------------------|---------------|
| A. Water Tank (gallons) | _____ | G. Cross beds (GPM/PSI) | _____ / _____ |
| B. Foam (gallons) | _____ | H. Cross beds (length & gauge) | _____ & _____ |
| C. Fuel (gallons) | _____ | I. Dry Chemical (length & gauge) | _____ & _____ |
| D. Bumper Turret (low/high) | _____ / _____ | J. Dry Chemical (PSI) | _____ |
| E. Roof Turret (low/high) | _____ | K. Extension Ladder (length) | _____ |
| F. Pump (GPM/PSI) | _____ / _____ | L. Straight Ladder (length) | _____ |

IMPERIAL BEACH – KME ARFF BEACH 14 & BEACH 15 | KOVATCH MOBILE EQUIPMENT 4X4

Note: Beach 14 has no Roof Turret

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|-----------------------------|---------------|----------------------------------|---------------|
| A. Water Tank (gallons) | _____ | G. Cross beds (GPM/PSI) | _____ / _____ |
| B. Foam (gallons) | _____ | H. Cross beds (length & gauge) | _____ & _____ |
| C. Fuel (gallons) | _____ | I. Dry Chemical (length & gauge) | _____ & _____ |
| D. Bumper Turret (low/high) | _____ / _____ | J. Dry Chemical (PSI) | _____ |
| E. Roof Turret (low/high) | _____ | K. Extension Ladder (length) | _____ |
| F. Bumper/Roof Turret PSI | _____ | L. Straight Ladder (length) | _____ |

AIRFIELD FAMILIARIZATION PROCEDURES

COMPLETED BY DISCUSSION

- A. Identify runway designations and locations as well as color of runway lights
- B. Identify taxiway designations and locations as well as color of taxiway lights
- C. Identify helicopter pad designations and locations as well as color of helicopter pad lights
- D. Identify location of arresting gears and show a general knowledge of arresting gear operations
- E. Identify colors and patterns of lights tower will use during a loss of communications on airfield

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AIRCRAFT SAFETY

COMPLETED BY DISCUSSION

- A. Identify and discuss at length various aircraft hazards including **but not limited to** moving parts and elbows, intakes, exhausts, guns and ordinance, shiny exposed metals, props, flares, radars, tire assemblies, ejection seats and cads
- B. Discuss the importance of proper PPE including hearing protection on airfield at all times

AIRCRAFT FAMILIARIZATION

COMPLETED BY PERFORMANCE

- A. Complete a full walkthrough of **F-18** discussing hazards and any information pertaining to firefighting including ejection seats
- B. Complete a full walkthrough of **H-60** discussing hazards and any information pertaining to firefighting
- C. Complete a full walkthrough of **C-2** discussing hazards and any information pertaining to firefighting

AIRFIELD EMERGENCIES

Read/Review and understand all Airfield Standard Operating Procedures (SOPs)

COMPLETED IN CLASSROOM

STANDARD OPERATING PROCEDURES			
	SOP	Pages	Subject
	283	1-1	Manning of Crash Apparatus
	284	1-3	Fuel and Oil Spills
	285	1-2	Medical Evacuation Emergencies
	286	1-2	Hot Brake Emergencies
	287	1-4	Composite Materials
	288	1-4	Hydrazine Spills
	289	1-2	Red Label Area/Weapons
	291	1-1	Tail Pipe Fires
	292	1-3	Engine Fires
	293	1-3	Wheel Assembly Fires

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APPENDIX: SUPPLEMENTAL GUIDE FOR DISCUSSION AND QUIZ COMPONENTS OF THE TASK BOOK

COMMUNICATIONS

Communications are a major factor in all emergency operations. It is paramount that two communication frequencies be established.

- VHF (Tower) Frequency will be the responsibility of the Primary Crew
 1. Nature of emergency and type of Aircraft
 2. Runway and Estimated Time of Arrival
 3. Pilot's intentions
 4. Number of souls on board
 5. Fuel on Board
 6. Ordnance and munitions on board
- 400 ELMR radio frequencies (dispatch) will be the responsibility of the Secondary Crew
 1. Establish with dispatch all units responding to maintain Aggregate Response Time (ART) IAW DODI 6055.06
 2. Act as Liaison and request for any additional resources requested by SFO or IC

IN-FLIGHT EMERGENCIES AND PROCEDURES

North Island ARFF crews will alternate monthly by Primary and Secondary status. Imperial Beach will always designate Beach 15 as PRIMARY and Beach 14 as secondary. San Clemente Island will always designate Beach 31 as PRIMARY and Beach 32 as secondary. Based on the type of aircraft and the runway that the aircraft is landing on, predetermined standby locations will be used. The needs of the aircraft must be continuously assessed by the IC. The IC will determine the overall incident strategy and maintain communications with the Tower at all times. Company Officers will inform the IC when they arrive at their designated standby location. All vehicles shall face the runway when positioning for In Flight Emergencies. Crews shall stay alert for the emergency aircraft and be cognizant of aircraft movement on the airfield. Command may direct changes as necessary based on vehicle status or type of emergency. Company Officers will notify Command if any airfield movements occur that may interfere with the emergency. For all In-flight emergencies, responding ARFF apparatus will initially stage at the following locations and await further assignments from the IC.

IN FLIGHT EMERGENCY APPROACH OF RUNWAY 29 OR 36 NORTH ISLAND

1. One (1) ARFF apparatus designated as the PRIMARY Response will stage at Point X-Ray. (Located at Bravo 2 & India Taxiways)
2. One (1) ARFF apparatus designated SECONDARY Response will stage at the approach of Runway 36 on Taxiway Echo OR at the approach of Runway 29 at Bravo 2 depending on the runway the inbound aircraft will be using.

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3. Any additional ARFF vehicles and ambulance will stage at Southside of F&ES Department, awaiting assignment.
4. One (1) Command Vehicle to flight line area.
5. One (1) Engine Company accompanies Command Vehicle or stage, as directed by IC.

INBOUND HELICOPTER EMERGENCIES SCI IMPERIAL BEACH OR NORTH ISLAND

1. One (1) ARFF apparatus designated as the PRIMARY Response and will respond directly to the rescue side (Pilots right)
2. One (1) ARFF apparatus designated as SECONDARY and will respond directly to the non-rescue side (Pilots left)
3. Any additional ARFF vehicles and ambulance will stage at Fire Station awaiting assignment.
4. One (1) Command Vehicle IC AND Engine Company will stage on flight line.

AIRFIELD EMERGENCY LANDING SAN CLEMENTE ISLAND

1. One (1) ARFF apparatus designated as PRIMARY will respond to the approach end of runway 24 or runway 6 depending on the location of the inbound aircraft.
2. One (1) ARFF apparatus designated as SECONDARY and will respond to the area designated as the Throat (near the ramp and Alpha Taxiway)
3. Any additional ARFF vehicles and ambulance will stage outside Fire Station awaiting assignment.
4. One (1) Command Vehicle to flight line area.
5. One (1) Engine Company accompanies Command Vehicle or stage, as directed by IC.

CONTROL TOWER COMMUNICATIONS

Upon notification, station Air Traffic Control Tower or Fire Department Dispatch will notify units via tone out or crash phone.

1. The tower will activate the crash phone to an emergency on the airfield. The nature of the emergency will be then announced over the stations public address system. There are 3 states of emergencies announced by the control tower.
2. Alert 1: An emergency in the air or on the ground requiring response. The severity of the situation is not expected to produce a catastrophic outcome.
3. Alert 2: An emergency in the air or on the ground of such severity that a catastrophic outcome is expected.
4. Alert 3: A catastrophic event has taken place

The following information will be provided, if available:

- Location: Landing Runway ETA
- Number of personnel on board the aircraft
- Type of Aircraft: Ordinance/Weapons and hazardous cargo

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- Nature of Emergency
- Fuel on Board

Direct radio communications with the control tower will be kept at all times by the primary crew. The secondary crew will maintain communications with dispatch.

EQUIPMENT TO BE USED DURING AIRFIELD EMERGENCY

Prior to stepping off of vehicle during an airfield emergency, all personnel must ensure that all PPE (including hearing protection) is worn. Breathing apparatus will be donned, mask in the standby position.

The following equipment must be taken and in the ready position available during an airfield emergency:

- Proper landing gear pins for type of aircraft
- Aircraft Wheel Chocks
- Heat Temperature Gun (pyrometer)
- Portable Crash Radio
- TIC
- Hearing Protection

EQUIPMENT SPECIFICATIONS

NORTH ISLAND – STRIKER 4X4 OSHKOSH | ARFF CRASH TRUCKS ISLAND 25 & 30

A. Water Tank (gallons)	<u>1500</u>	G. Cross beds (GPM/PSI)	<u>95</u> / <u>150</u>
B. Foam (gallons)	<u>210</u>	H. Cross beds (length & gauge)	<u>150</u> & <u>1.75"</u>
C. Fuel (gallons)	<u>90</u>	I. Dry Chemical (length & gauge)	<u>100</u> & <u>1"</u>
D. Bumper Turret (low/high)	<u>300</u> / <u>700</u>	J. Dry Chemical (PSI)	<u>80</u>
E. Roof Turret (low/high)	<u>375</u> / <u>750</u>	K. Extension Ladder (length)	<u>24'</u>
F. Pump (GPM/PSI)	<u>1950</u> / <u>250</u>	L. Straight Ladder (length)	<u>14'</u>

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SAN CLEMENTE ISLAND – SCI E-ONE P-701 | ARFF CRASH TRUCKS ISLAND 31 & 32

A. Water Tank (gallons)	<u>1585</u>	G. Cross beds (GPM/PSI)	<u>95</u> / <u>150</u>
B. Foam (gallons)	<u>205</u>	H. Cross beds (length & gauge)	<u>150</u> & <u>1.75"</u>
C. Fuel (gallons)	<u>70</u>	I. Dry Chemical (length & gauge)	<u>150</u> & <u>1"</u>
D. Bumper Turret (low/high)	<u>375</u> / <u>750</u>	J. Dry Chemical (PSI)	<u>80</u>
E. Roof Turret (low/high)	<u>600</u> / <u>1200</u>	K. Extension Ladder (length)	<u>24'</u>
F. Pump (GPM/PSI)	<u>1500</u> / <u>200</u>	L. Straight Ladder (length)	<u>14'</u>

IMPERIAL BEACH – KME ARFF BEACH 14 & BEACH 15 | KOVATCH MOBILE EQUIPMENT 4X4

Note: Beach 14 has no Roof Turret

A. Water Tank (gallons)	<u>1500</u>	G. Cross beds (GPM/PSI)	<u>125</u> / <u>100</u>
B. Foam (gallons)	<u>210</u>	H. Cross beds (length & gauge)	<u>200</u> & <u>1.75"</u>
C. Fuel (gallons)	<u>50</u>	I. Dry Chemical (length & gauge)	<u>150</u> & <u>1"</u>
D. Bumper Turret (low/high)	<u>250</u> / <u>1250</u>	J. Dry Chemical (PSI)	<u>80</u>
E. Roof Turret (low/high)	<u>750</u> / <u>1250</u>	K. Extension Ladder (length)	<u>24'</u>
F. Bumper/Roof Turret PSI	<u>250</u>	L. Straight Ladder (length)	<u>14'</u>

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DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

DATE	TIME	HRS	APP	TASK	STA	SUPERVISOR NAME
	FROM:					PRINT:
	TO:					SIGN:

	TOTAL HOURS
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