

Fire Control 4A: Ignitable Liquids and Gases Awareness/Operations

Instructor Task Book (2022)



California Department of Forestry and Fire Protection
Office of the State Fire Marshal
State Fire Training

Overview

Authority

Published: November 2022

Published by: State Fire Training, PO Box 944246, Sacramento, CA 94244-2460

Cover photo courtesy of Caryn Petty, Deputy State Fire Marshal, State Fire Training, CAL FIRE.

Purpose

The State Fire Training instructor task book is a performance-based document. It lists the minimum requirements a candidate must meet in order to teach a specific State Fire Training course or course series.

Assumptions

With the exception of Fire Fighter and Emergency Vehicle Technician (EVT) certifications, a candidate may begin the task book initiation process upon completion of all required education components (courses).

Each job performance requirement (JPR) shall be evaluated after the candidate initiates the task book.

State Fire Training task books do not count towards the NWCG task book limit. There is no limit to the number of State Fire Training task books a candidate may pursue at one time as long as the candidate meets the initiation requirements for each.

It is the candidate's responsibility to routinely check the State Fire Training website for updates to an initiated task book. All State Fire Training issued updates to an initiated task book are required for task book completion.

A candidate must complete their task book within three years of its initiation date. Otherwise, a candidate must initiate a new task book using the curriculum's current published version.

Roles and Responsibilities

Candidate

The candidate is the individual pursuing instructor registration.

Initiation

The candidate shall:

1. Complete the Initiation Requirements section.
 - Please print.
2. Complete a block on the Signature Verification page with a handwritten signature.

Completion

The candidate shall:

1. Complete all Job Performance Requirements.
 - Ensure that an evaluator initials, signs, and dates each task to verify completion.
2. Complete the Completion Requirements section.
3. Sign and date the Candidate verification section on the Review and Approval page with a handwritten signature.
4. Obtain their fire chief's handwritten (not stamped) signature on the Fire Chief verification section on the Review and Approval page.
5. Create and retain a physical or high-resolution digital copy of the completed task book.

Submission

The candidate shall:

1. Submit a copy (physical or digital) of the completed task book and any supporting documentation to State Fire Training.
 - See Submission and Review below.

A candidate should not submit a task book until they have completed all requirements and obtained all signatures. State Fire Training will reject and return an incomplete task book.

Evaluator

An evaluator is any individual who verifies that the candidate can satisfactorily execute a job performance requirement (JPR).

A qualified evaluator is a Registered Fire Control 4A: Ignitable Liquids and Gases Awareness/Operations Instructor designated by the candidate's Fire Chief (or authorized designee). If no such evaluator is present within the organization, the Fire Chief (or authorized designee) shall designate an individual with more experience than the candidate and a demonstrated ability to execute the job performance requirements. For instructor task books that do not require fire chief initiation, academy instructors serve as or designate evaluators.

An instructor task book may have more than one evaluator.

All evaluators shall:

1. Complete a block on the Signature Verification page with a handwritten signature.
2. Review and understand the candidate's instructor task book requirements and responsibilities.
3. Verify the candidate's successful completion of one or more job performance requirements through observation.
 - Do not evaluate any job performance requirement (JPR) until after the candidate initiates the task book.
 - Sign all appropriate lines in the instructor task book with a handwritten signature or approved digital signature (e.g., DocuSign or Adobe Sign; a scanned copy of a signature is not acceptable) to record demonstrated performance of tasks.

Fire Chief

The Fire Chief is the individual who initiates (when applicable) and then reviews and confirms the completion of a candidate's instructor task book.

A Fire Chief may identify an authorized designee already on file with State Fire Training to fulfill any task book responsibilities assigned to the Fire Chief. (See *State Fire Training Procedures Manual*, 4.2.2: Authorized Signatories)

Initiation

The Fire Chief shall:

1. Review and understand the candidate's instructor task book requirements and responsibilities.
2. Complete a block on the Signature Verification page with a handwritten signature.
3. Designate qualified evaluators.

Completion

The Fire Chief shall:

1. Confirm that the candidate has obtained the appropriate signatures to verify successful completion of each job performance requirement.
 - Ensure that all job performance requirements were evaluated after the initiation date.
2. Confirm that the candidate meets the Completion Requirements.
3. Sign and date the Fire Chief verification statement under Review and Approval with a handwritten signature.
 - If signing as an authorized designee, verify that your signature is on file with State Fire Training.

Submission and Review

A candidate should not submit a task book until they have completed all requirements and obtained all signatures. State Fire Training will reject and return an incomplete task book.

To submit a completed task book, please send the following items to the address below:

1. A copy of the completed task book (candidate may retain the original)
2. All supporting documentation
3. Payment

State Fire Training

Attn: Instructor Registration

PO Box 944246

Sacramento, CA 94244-2460

State Fire Training reviews all submitted task books.

- If the task book is complete, State Fire Training will authorize the task book and retain a digital copy of the authorized task book in the candidate's career file.
- If the task book is incomplete, State Fire Training will return the task book with a notification indicating what needs to be completed prior to resubmission.

Completion of this instructor task book is one step in the instructor registration process. Please refer to the *State Fire Training Procedures Manual* for the complete list of qualifications required to teach Fire Control 4A: Ignitable Liquids and Gases Awareness/Operations.

Initiation Requirements

The following requirements must be completed prior to initiating this task book.

Candidate Information

Name: _____

SFT ID Number: _____

Fire Agency: _____

Initiation Date: _____

Prerequisites

The candidate meets the following prerequisites.

1. OSFM Instructor 2 certification **or** Training Instructor 2 certification **or** Fire Instructor 2 certification or SFT Registered Instructor
2. OSFM Fire Fighter 2 certification

Include documentation to verify prerequisite requirements when you submit your instructor task book unless verification is already documented in your SFT User Portal.

Education

That candidate has completed the following courses.

1. I-300 Intermediate ICS (CalEMA/CalOES, CDF/CAL FIRE, FEMA, FIRESCOPE, NFA, NWCG, or SFT)
2. Fire Control 4A: Ignitable Liquids and Gases Awareness/Operations (2022)
or
Fire Control 4: Controlling Ignitable Liquids and Gases (2015) **and** Hazardous Materials First Responder Operations (FRO) (IAFF, CSTI, or SFT)

Include documentation to verify education requirements when you submit your instructor task book unless verification is already documented in your SFT User Portal.

Fire Chief Approval

State Fire Training confirms that a Fire Chief's approval is not required to initiate this task book.

Signature Verification

The following individuals have the authority to verify portions of this instructor task book using the signature recorded below.

Please print except for the Signature line where a handwritten signature is required.
Add additional signature pages as needed.

Name: _____
Job Title: _____
Organization: _____
Signature: _____

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Job Title: _____
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Job Title: _____
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Name: _____
Job Title: _____
Organization: _____
Signature: _____

Job Performance Requirements

Job Performance Requirements

The candidate must complete each job performance requirement (JPR) in accordance with the standards of the authority having jurisdiction (AHJ) or the National Fire Protection Association (NFPA), whichever is more restrictive.

When California requirements exceed or require revision to the NFPA standard, the corresponding Office of the State Fire Marshal approved (OSFM) additions or revisions appear in italics.

All JPRs must be completed within a California fire agency or State Fire Training Accredited Regional Training Programs (ARTP).

Each JPR shall be evaluated after the candidate initiates the task book.

Each task must be performed twice.

- The two instances must occur during two different courses.
- The same evaluator cannot sign off on the same task twice.

Examples of correct and incorrect evaluation:

Correct: Task completed during two separate courses and evaluated by two separate individuals.

1. Assemble a comprehensive burn plan ("burn book") that contains all documentation necessary to conduct a live fire training evolution in accordance with NFPA standards and the policies and procedures of State Fire Training (SFT) and the authority having jurisdiction (AHJ).	1 st Evaluation			2 nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Describe purpose of a live fire burn plan	AAA123	2/8/18	JAS	BBB123	5/15/18	CWJ
b. Identify components of a live fire burn plan ("burn book")	AAA123	2/8/18	JAS	BBB123	5/15/18	CWJ
c. Identify records-retention requirements for burn plans	AAA123	2/8/18	JAS	BBB123	5/15/18	CWJ

Incorrect: Task completed twice during one course but evaluated by two separate individuals.

1. Assemble a comprehensive burn plan (“burn book”) that contains all documentation necessary to conduct a live fire training evolution in accordance with NFPA standards and the policies and procedures of State Fire Training (SFT) and the authority having jurisdiction (AHJ).	1 st Evaluation			2 nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Describe purpose of a live fire burn plan	AAA123	2/8/18	JAS	AAA123	2/8/18	CWJ
b. Identify components of a live fire burn plan (“burn book”)	AAA123	2/8/18	JAS	AAA123	2/8/18	CWJ
c. Identify records-retention requirements for burn plans	AAA123	2/8/18	JAS	AAA123	2/8/18	CWJ

Incorrect: Task completed during two separate courses but evaluated by the same individual.

1. Assemble a comprehensive burn plan (“burn book”) that contains all documentation necessary to conduct a live fire training evolution in accordance with NFPA standards and the policies and procedures of State Fire Training (SFT) and the authority having jurisdiction (AHJ).	1 st Evaluation			2 nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Describe purpose of a live fire burn plan	AAA123	2/8/18	JAS	BBB123	5/15/18	JAS
b. Identify components of a live fire burn plan (“burn book”)	AAA123	2/8/18	JAS	BBB123	5/15/18	JAS
c. Identify records-retention requirements for burn plans	AAA123	2/8/18	JAS	BBB123	5/15/18	JAS

Ignitable Liquids and Gases Awareness/Operations

1. Administration	1st Evaluation			2nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Describe facility requirements						
b. Secure resources: fuel, foam or foam substitute, props or FLAG trailer						
c. Confirm that equipment is serviceable: PPE (including SCBA), props, nozzles, hoses, etc.						
d. Prepare a pre-burn plan in compliance with NFPA 1403						
e. Describe Fire Control 4 course plan content						
f. Describe NFPA 1403: Standard on Live Fire Training Evolutions (chapter 8 – Exterior Class B Fires) requirements						
g. Describe how to become a Registered SFT Fire Control 4 Instructor						
h. Obtain SFT course approval						
i. Secure applicable permits and/or approvals						
j. Notify applicable parties						
k. Develop IAP for operational period using applicable ICS forms						
l. Identify and assign instructional tasks and duties in compliance with NFPA 1403						
m. Maintain the training environment to safeguard participants						
n. Deliver course in accordance with <i>SFT Procedures Manual</i>						

o. Complete records and reports in accordance with NFPA 1403						
2. Classroom/Lecture	1st Evaluation			2nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Develop teaching materials based on Fire Control 4 course plan: lesson plan, audio/visual presentations, activities (if applicable), handouts (if applicable)						
b. Deliver lecture and application portions of Fire Control 4 course plan						
3. Prop Set Up and Operations	1st Evaluation			2nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Demonstrate correct prop set up based on facility requirements						
b. Conduct a pre-burn inspection of the structure or prop						
c. Calculate the minimum water supply required for a live fire evolution in compliance with NFPA 1403, Section 4.12						
d. Calculate the minimum water flow application rate for a live fire evolution in compliance with NFPA 1403, Section 4.12						
e. Demonstrate safe operation of individual props prior to instruction						
f. Predict stages of fire growth in a compartment, flow path, flashover, rollover, and backdraft						
g. Conduct a personnel accountability report (PAR) upon entering and exiting a live fire structure or prop						
h. Monitor live fire participants to safeguard participants						
i. Conduct a post-burn inspection of the structure or prop						

j. Conduct a post-burn briefing session						
4. Skills Exercise Set Up and Placement (Liquids)	1st Evaluation			2nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Establish two water supply sources						
b. Set up proper hose lines: attack lines, safety lines, personnel						
c. Confirm hose line pressure and flow						
5. Skills Training (Liquids)	1st Evaluation			2nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Conduct student/instructor skill briefing						
b. Perform a walk around of exercise site and test burn						
c. Inspect students' PPE and SCBA						
d. Supervise a group during a live fire evolution						
e. Prepare foam concentrate supply for use						
f. Assemble foam stream components						
g. Demonstrate rain down foam application technique						
h. Demonstrate roll in/on foam application technique						
i. Demonstrate bank back foam application technique						
j. Approach and retreat from spills as part of a coordinated team						

6. Skills Exercise Set Up and Placement (Gas)	1 st Evaluation			2 nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Establish two water supply sources						
b. Set up proper hose lines: attack lines, safety lines, personnel						
c. Confirm hose line pressure and flow						
7. Skills Training (Gas: Pressure Cylinder)	1 st Evaluation			2 nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Conduct student/instructor skill briefing						
b. Perform a walk around of exercise site and test burn						
c. Inspect students' PPE and SCBA						
d. Supervise a group during a live fire evolution						
e. Execute effective advances and retreats						
f. Apply various water application techniques						
g. Assess cylinder integrity and changing cylinder conditions						
h. Operate control valves						
i. Choose effective procedures when conditions change						
8. Skills Training (Gas: Meter)	1 st Evaluation			2 nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Conduct student/instructor skill briefing						
b. Perform a walk around of exercise site and test burn						

c. Inspect students' PPE and SCBA						
d. Supervise a group during a live fire evolution						
e. Execute effective advances and retreats						
f. Apply various water application techniques						
g. Assess cylinder integrity and changing cylinder conditions						
h. Operate control valves						
i. Choose effective procedures when conditions change						
9. Skills Training (Gas: Valves, Flanges, and Piping)	1st Evaluation			2nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Conduct student/instructor skill briefing						
b. Perform a walk around of exercise site and test burn						
c. Inspect students' PPE and SCBA						
d. Supervise a group during a live fire evolution						
e. Execute effective advances and retreats						
f. Apply various water application techniques						
g. Assess cylinder integrity and changing cylinder conditions						
h. Operate control valves						
i. Choose effective procedures when conditions change						

10. Demobilization	1 st Evaluation			2 nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Demobilize props						
b. Demobilize equipment						
c. Demobilize personnel						
11. Post-Incident Analysis (PIA)	1 st Evaluation			2 nd Evaluation		
	Course Code	Date	Initials	Course Code	Date	Initials
a. Conduct a post-incident analysis						
b. Complete applicable required reports						

Completion Requirements

The following requirements must be completed prior to submitting this task book.

Experience

That candidate has completed the following experience requirements.

1. Have a minimum of two years’ full-time or four years’ part-time/volunteer experience as a Fire Fighter performing suppression duties in a recognized California Fire Agency

Agency	Experience	Start Date	End Date

Position

State Fire Training confirms that there are no position requirements for instructor registration.

Updates

The candidate has completed and enclosed all updates to this instructor task book released by State Fire Training since its initial publication.

Number of enclosed updates: _____

Completion Timeframe

A candidate must complete their task book within three years of its initiation date. Otherwise, a candidate must initiate a new task book using the curriculum’s current published version.

Initiation Date (see Initiation Date under Initiation Requirements): _____

Review and Approval

Candidate

Candidate (please print): _____

I, the undersigned, am the person applying to teach Fire Control 4A: Ignitable Liquids and Gases Awareness/Operations. I hereby certify under penalty of perjury under the laws of the State of California, that the completion of all requirements documented herein is true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection or revocation.

Signature: _____ Date: _____

Fire Chief

Candidate's Fire Chief (please print): _____

I, the undersigned, am the person authorized to verify the candidate's qualifications to teach Fire Control 4A: Ignitable Liquids and Gases Awareness/Operations. I hereby certify under penalty of perjury under the laws of the State of California, that the completion of all requirements documented herein are true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection.

Signature: _____ Date: _____