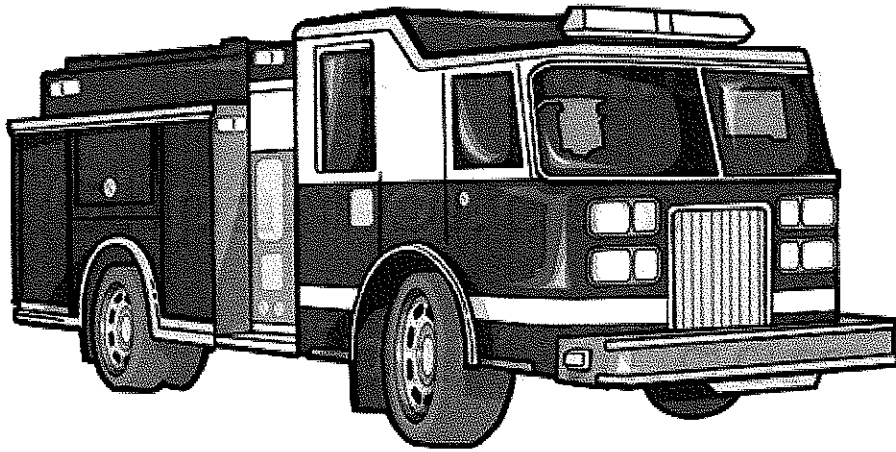


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# **Stanislaus Consolidated Fire Protection District**



# **Engineer Task Book**

## Stanislaus Consolidated Fire Engineer Task Book

This task book has been created to help firefighters promote to the rank of fire engineer and reserve staff train to be qualified as driver/operators on specific apparatus.

The Training Division will assist you with the completion of this task book. You will be responsible for arranging the time to complete each task with your company officer. This shall **not** interfere with regular daily duties or scheduled training. You will be responsible for completing each section and demonstrating proficiency with each task. It will be your job to learn the position before you can promote or be cleared to operate apparatus.

This booklet also includes the necessary steps for career firefighters to become an acting engineer. An acting engineer will be eligible to fill engineer overtime and back fill the stations for engineer emergency hire back. Engineers will have priority over acting engineers in the same manner captains have over acting captains.

Career Personnel - Once you have completed all tasks marked with an (\*) or have completed this task book, you will be required to successfully participate in an assessment center. The assessment center will include a comprehensive practical demonstration with multiple apparatus.

Reserve Staff - Once completing the sections of the task book pertaining to the apparatus being trained on, volunteer/intern personnel will be required to successfully complete an assessment center. The assessment center will focus on the specific apparatus the individual has trained with.

Assessment centers will be held as required to meet the needs of the District. The assessment center will be comprised of a company officer and engineer that do not routinely supervise the candidate and the training officer.

Career Personnel - Once you have passed the assessment center, you will be required to successfully complete a written examination. If successful, you will be placed on an Engineer Eligibility List by the date of completion and final score. This will give the District a list to pull from when engineer positions become available. The Engineer Eligibility List will not expire, but if you decide to remove yourself from acting engineer status, you will be required to demonstrate proficiency as required by management before being placed back on the list.

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Management reserves the final right to promote from the list. Being on the list does not guarantee a promotion.

Reserve Staff – Once you have passed the assessment center, you will be required to successfully complete a written examination. If successful, you will then be cleared to operate the specific apparatus trained on. A note will be placed in your training/personnel file describing your status.

Required study materials are:

IFSTA Driver/Operator 2<sup>nd</sup> Edition

California DMV Commercial Driver Handbook – Current Edition

Please direct questions regarding this task book to S.C.F.P.D. Training Division.

## GUIDE SHEET

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### SECTION 1

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#### *Driver Operator IFSTA*

##### **ESSAY-**

Candidate will write at least a 50 word essay on what was covered in each chapter. It will be reviewed by the Training Officer. If the Training Officer is satisfied with the essay, the candidate will then be issued the quiz for that chapter. The Quiz will be in a sealed envelope and is not to be opened by the candidate. He/She is to present the sealed envelope to the Captain in charge of them that shift. It will be the Captains discretion when you will be given the Quiz that day.

##### **QUIZ-**

The Quiz is a 10 question test pertaining to the materials covered in each chapter. All are **CLOSED BOOK** and will be graded by the Training Officer. Once complete, send the Quiz back to the Training Officer in the same sealed envelope for grading. You must receive at least an 80% on the quiz to move on to the next chapter. **DO NOT MAKE COPIES OF THE QUIZ. If you make a mistake attach a note explaining what happened.** The Training Officer will notify you of your score as soon as possible.

#### *Pump Drawings*

Must draw a Type 1 Engine, SC72, and a Tender. Drawings must include; Tank, Intakes, Discharges, Foam induction point, Relief Valve and Primer. Color code as practical. You're not being graded on your artistic ability, but drawing must be legible.

### SECTION 2

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#### *Mechanical Knowledge*

##### **Schedule "A" inspection**

Candidate must perform a supervised Schedule "A" inspection by the engineer and/or captain assigned to that apparatus. Candidate will be signed off on this task when he/she shows proficiency in it.

##### **Brake Test**

Candidate must perform a supervised in cab air brake check including air leakage test, air compressor cut-out/cut-in check and the parking brake test by the engineer and/or captain assigned to that apparatus. Candidate will be signed off on this task when he/she shows proficiency in it.

##### **Parts and Function**

Candidate will identify each part listed in this section. Explain the function of the part to the evaluator. Candidate will be signed off on this task when he/she shows proficiency in it.

## **SECTION 2 cont.**

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**Basic Trouble Shooting** Candidate will explain to the evaluator the basic steps for troubleshooting each task in this section. They are not expected to be mechanics but should be able to troubleshoot and fix basic problems. Please explain the first two steps you would take to solve each situation before asking for help.

## **SECTION 3**

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**\* MUST COMPLETE SECTION 1 & 2 BEFORE STARTING SECTION 3\***

**Pre-Trip Inspection** Candidate must perform a supervised Pre-Trip Inspection by the engineer and/or captain assigned to that apparatus. Candidate will be signed off on this task when he/she shows proficiency in it.

**Driving Fire Apparatus** Candidate must complete the IFSTA Rodeo before road driving can begin. Must pass three full rodeo evolutions in a row to be proficient. Candidate must have approval from the captain of the apparatus he/she wishes to drive that day. When granted approval, the candidate will follow all the rules of the road and must maintain constant control of the apparatus. Code three driving will be done at the Captains discretion. You will be signed off on this task when the evaluator feels that you are qualified to safely operate the apparatus.

## **SECTION 4**

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**Hydrants** Complete a flow test for the evaluator using the help of an assistant if necessary.

Demonstrate to the evaluator the proper way to maintain a fire hydrant.

Complete a drawing of a water grid system for hydrants and present it to the Training Officer. It should include the size and names of the three pipes.

Tell the evaluator the properties of each color hydrant

**Pumping Evolutions** Candidate must be evaluated on all pumping evolutions by the engineer and/or captain assigned to that apparatus. Candidate will be signed off on each when he/she shows proficiency in it.

**Ladder Operations** Candidate must be evaluated on all Ladder Operations by the engineer and/or captain assigned to that apparatus. Candidate will be signed off each task when he/she shows proficiency in it.

**\*SC81 Operations** Candidate must be evaluated on all SC81 operations by the engineer and/or captain assigned to that apparatus. Candidate will be signed off each task when he/she shows proficiency in it.

Stanislaus Consolidated Fire Engineer Task Book

**SECTION 1** **COMPLETION DATE** **EVALUATOR** **TRAINING LOGGED**

***Driver Operator IFSTA***

Chapter 1 Summary Essay			
Chapter 2 Summary Essay/Quiz			
Chapter 3 Summary Essay/Quiz			
Chapter 4 Summary Essay/Quiz			
Chapter 5 Summary Essay/Quiz			
Chapter 6 Summary Essay/Quiz			
Chapter 7 Summary Essay/Quiz			
Chapter 8 Summary Essay/Quiz			
Chapter 9 Summary Essay/Quiz			
Chapter 10 Summary Essay/Quiz			
Chapter 11 Summary Essay/Quiz			
Chapter 12 Summary Essay/Quiz			
Chapter 13 Summary Essay/Quiz			
Chapter 14 Summary Essay/Quiz			
Chapter 15 Summary Essay/Quiz			
Chapter 16 Summary Essay			

***Pump Drawings (Check Three)***

SC21,SC23,SC24 or SC26			
SC25			
SC31			
SC33 (OES 347)			
SC36			
SC62			
SC64			
SC66			
*SC72			

***CERTS and LICENSES***

Obtain Class "B" CDL permit with :			
Air Brake Endorsement			
Tanker Endorsement			
Driver Operator 1A			
Driver Operator 1B			
Firefighter 1 State Fire Marshal			

Comments:

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Stanislaus Consolidated Fire Engineer Task Book

SECTION 3 continued	COMPLETION DATE	EVALUATOR	TRAINING LOGGED
SC31			
IFSTA Rodeo ( 3 in a row )			
1 hour urban driving			
1 hour rural driving			
SC81			
IFSTA Rodeo ( 3 in a row )			
1 hour urban driving			
1 hour rural driving			
SC98			
IFSTA Rodeo ( 3 in a row )			
1 hour urban driving			
1 hour rural driving			
SC62			
IFSTA Rodeo ( 3 in a row )			
2 hour urban driving			
2 hour rural driving			
Trip to Coulterville			
SC33 (OES 347)			
IFSTA Rodeo ( 3 in a row )			
2 hour urban driving			
2 hour rural driving			
SC53			
IFSTA Rodeo ( 3 in a row )			
1 hour urban driving			
1 hour rural driving			
SC54			
IFSTA Rodeo ( 3 in a row )			
1 hour urban driving			
2 hour rural driving			
Correct 4x4 Operation			
SC64			
IFSTA Rodeo ( 3 in a row )			
2 hour urban driving			
2 hour rural driving			
Trip to Coulterville			

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<b>SECTION 3 continued</b>	<b>COMPLETION DATE</b>	<b>EVALUATOR</b>	<b>TRAINING LOGGED</b>
SC36			
IFSTA Rodeo ( 3 in a row )			
1 hour urban driving			
1 hour rural driving			
SC66			
IFSTA Rodeo ( 3 in a row )			
1 hour urban driving			
1 hour rural driving			

**Calif. Commercial Driver License**

*Obtain Class "B" or greater with:			
Tanker Endorsement			
Air Brakes Endorsement			
Manual Restriction Lifted			

Comments:

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**SECTION 4**                      **COMPLETION DATE**    **EVALUATOR**    **TRAINING LOGGED**

***\*Hydrants***

Complete Flow Test			
Maintenance 1 Hydrant			
Drawing of Grid system			
Class & Color of 0-499			
Class & Color of 500-999			
Class & Color of 1000-1499			
Class & Color of 1500 & up			

***\*Pumping with change over***

At correct pres ± 5psi flow			
200' 1¾" cross lay			
150' 1¾" cross lay			
250' 3" supply line			
Stand pipe			
Aerial with Fog nozzle			
Deck Gun w/ smooth bore			
200' monitor w/fog			
Wyed 1¾" w/ 250' of 2½"			

***\*Drafting Evolution***

At correct pres ± 5psi flow			
200' of 3" supply			
Deck Gun w/ smooth bore			
150' 1¾" cross lay			
200' monitor w/fog			

***\*Ladder Operations***

Complete SOP #6A			
Complete SOP #6B			
Perform Rescue:			
Through Window			
From Roof Top			
From Top of Hose Tower			

***\*SC81 Operations***

Set up Scene Lighting with;			
Tower Light			
Mobile Light			
Start Air Compressor			
Fill Cascade System			
Identify SCBA Hydro Date			
Fill SCBA Bottles From;			
Compartment Fill Station			
Whip Line			

Comments:

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Stanislaus Consolidated Fire Engineer Task Book

**SECTION 5**                      **COMPLETION DATE**    **EVALUATOR**    **TRAINING LOGGED**

**Miscellaneous**

Obtain Firefighter 2 state cert.			

\*2 years experience as a firefighter

NOTE: To be considered for an acting engineer position, **ALL** tasks with a/an ( \* ) must be completed. Upon completion the Firefighter shall submit a written letter to the Training Officer requesting that he/she be considered for acting engineer status. The Training Officer will discuss your request with the Battalion Chiefs. The request will be approved by the Operations Chief. The candidate will be notified by the Operations Chief whether your request was granted or denied.

Comments:

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