

**SANTA CLARA FIRE DEPARTMENT**

**MPT - 1101**

**TOPIC:**                   **Equipment Aloft/Hoisting**

**TEST PROCESS:**       The objective is to demonstrate the ability to tie and hoist aloft equipment (Axe, Pikepole, Charge and Uncharge hose). Begin on the command "GO." The time will end when the operation is completed.

**EQUIPMENT NEEDED:**   One (1) 14 foot roof ladder  
One (1) Axe  
One (1) pike pole  
One (1) 2½" fog nozzle with a 2½" working line  
One (1) 100' utility line  
One (1) clipboard per rater  
One (1) marking pen per rater  
One (1) stopwatch  
One (1) manipulative performance test directions per rater  
One (1) manipulative performance test directions per student  
One (1) test rating worksheet per rater and per student

**BEHAVIORAL OBJECTIVE:**

**Given:**                   A fire fighter with one (1) axe, (1) pike pole, (1) 2½" nozzle with a working line, one 14 foot ladder, and one (1) 100' utility line

**Performance:**       The student will properly tie and hoist aloft equipment

**Standard:**           Completing all operations within \_\_\_\_\_ according to the job breakdown.

**SCORING CRITERIA FOR EACH OPERATION**

**GENERAL:**

**Scoring Criteria:** The scoring system involves three scoring operations:

1. **Basic Operations** is given a point value of 1.
2. **Essential Operations** is given a point value of 2.
3. **Critical Operations** or **Safety Violations** are given a point value of 2, are pass/fail, and are marked with an asterisk (\*).

**Minimum Passing Score** is **80%** on each evolution.

Students will be assigned deficiency points for each error or omission made. The student fails the test when a designated number of deficiency points have been assigned, when a critical operation is omitted, or when a **safety violation** occurs.

**Testing Procedure:**

Students will call out items that cannot be observed by the rater(s). Students shall verbally indicate that they are ready to begin the test process. The rater(s) will time the evolution (if applicable) and will score the student.

**SPECIFIC:**

**14** Operations will be evaluated.

**26** Points are possible.

**21** Points within the allotted time are passing. Failure to achieve this score within the allotted time will be cause for rescheduling.

**Evaluator's Criteria: (Do not read aloud)**

Student will receive all or none of the points possible for each key operation. When the student misses or improperly performs an operation, circle the point value listed next to the **Operation** in which the student makes the error. The total deficiency points will be subtracted from the total points possible to determine the final score. Automatic failure can result from the student not completing a **Critical Operation**, or by committing a **Safety Violation**; this will cause immediate termination of that particular test evolution. Exceeding an applicable time allotment for any evolution will also result in automatic failure.

STUDENT: \_\_\_\_\_

DATE: \_\_\_\_\_

OPERATIONS		KEY POINTS	
<b>PICK HEAD AXE ALOFT</b>			
<u>*2</u>	1. Tie a clove hitch	1	a. Around the axe handle, near the head of the axe b. Loop the working end of the rope around the head of the axe and back up the handle
<u>*2</u>	2. Tie two half hitches*	2	a. One halfway up the handle b. Another six inches from the end of the handle
<b>PIKE POLE ALOFT</b>			
<u>2</u>	1. Tie a clove hitch	1	a. At the lower end of the handle (away from the tip) b. With the running end toward the tip
<u>2</u>	2. Tie a half hitch	2	a. One halfway between the clove hitch and the tip b. As second one around the head of the pike pole

STUDENT: \_\_\_\_\_

DATE: \_\_\_\_\_

OPERATIONS		KEY POINTS	
<b>UNCHARGED 2 ½” LINE</b>			
<u>  *2  </u>	1. Fold the nozzle back over the hose	1	a. About 3 to 5 feet
<u>  2  </u>	2. Tie a clove hitch	2	a. Around the nozzle and the hose
<u>  2  </u>	3. Tie a half hitch	3	a. Around the connection where the hose meets the nozzle
<u>  2  </u>	4. Tie another half hitch	4	a. Around the hose b. 3 to 4 inches from where the hose forms a bight
<b>CHARGED 2½” LINE</b>			
<u>  *2  </u>	1. Tie a clove hitch	1	a. About 1 to 2 feet from the nozzle
<u>  2  </u>	2. Tie a half hitch	2	a. Around the hose coupling just prior to where the nozzle is attached
<u>  2  </u>	3. Tie another half hitch	2	a. Around the nozzle b. Incorporating the nozzle so that the bale is forced into the closed position

STUDENT: \_\_\_\_\_

DATE: \_\_\_\_\_

OPERATIONS		KEY POINTS	
<b>ROOF LADDER ALOFT</b>			
<u>*2</u>	1. Tie a figure-eight on a bight (or a bowline)	1	a. To form a loop large enough to pass over ladder
<u>1</u>	2. Slip knot formed between two rungs	2	a. One third of the distance from the tip b. From the ground side of ladder
<u>1</u>	3. Slip knot formed over top of ladder	3	a. Remove slack b. Rope positioned between ladder and building when hoisting

**MANIPULATIVE PERFORMANCE TEST**

Equipment Aloft Hoisting

DATE: \_\_\_\_\_

OFFICER: \_\_\_\_\_

DRIVER/ENGINEER: \_\_\_\_\_

FIREFIGHTER: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_

	Officer	Driver/Engineer	Firefighter
TOTAL POSSIBLE POINTS:	_____	_____	<u>26</u>
DEFICIENCY POINTS:	(____)	(____)	_____
STUDENT'S FINAL SCORE:	_____	_____	_____
PASSING SCORE (80%):	_____	_____	<u>21</u>
PERFORMANCE TIME:	_____		
MAXIMUM ALLOTTED TIME:	_____		
<b>PASS:</b>	_____		
<b>FAIL:</b>	_____		

**Reason For Disqualification (if applicable):**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**EVALUATOR'S SIGNATURE(S):**

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date