

# **Pumper Qualification**



**City of Gallup  
Fire Department  
2015**

## **Performance Test Instructions**

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This qualification checklist provides detailed performance checklist items for candidate testing. Qualification tests should not be conducted until the candidate has been fully trained on the apparatus. However, it is strongly encouraged that this supplement and the checklist it contains be used during the normal course of study. Candidates may practice the qualification tests at any time during study and up until testing is conducted. Practice is highly encouraged.

This particular course uses three workstations. Within each workstation there are several tasks and objectives (NFPA line items). A “Performance Summary Sheet” precedes each workstation or group of evaluated tasks. This sheet lists the NFPA line items evaluated and the specific tasks that must be accomplished. Each performance test lists the setting and tools/equipment required for the listed tasks.

It is important also to understand the grading process used during the evaluation.

## **Grading Criteria**

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The following criteria will be used to evaluate and determine the pass/fail status of a candidate. Each item in the Performance Test Checklist is given a rating.

**Critical (C)** – This rating has been assigned to items which, if omitted or performed incorrectly, would result in severe injury to, or death of an individual. Should a fire fighter fail to perform any one item rated as Critical (**C**), the fire fighter would be unsuccessful in attaining the required proficiency level for that performance test.

**Major (M)** – This rating has been given to any item which is very important to the general safety of personnel and the successful completion of the evolution. Should a fire fighter fail to perform any three items rated as Major (**M**), the fire fighter would be unsuccessful in attaining the required proficiency level for that performance test.

**General** – This rating although there is not symbol, has been given to all remaining items that in combination are relevant to the successful completion of the evolution. Should a fire fighter fail to perform any **four** items rated as General, the fire fighter would be unsuccessful in attaining the required proficiency level for that performance test.

Should a fire fighter fail to perform any combination of Major or General rated items resulting in a sum total of **four**, the fire fighter would be unsuccessful in attaining the required proficiency level for that performance test.

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## **SKILLS TEST 1 – Pre-Operations Station**

### **Performance Test Summary Sheet**

**Objectives:** NFPA Standard 1002, Chapter 4, Paragraphs 4.2.1 and 4.2.2  
NFPA Standard 1002, Chapter 5, Paragraph 5.1.1

**Tasks:** 1. Conduct and document routine tests, inspections, and servicing functions.

# 1. Pre-Operations

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## Performance Test Item – Inspections

**Personnel Classification:** Driver/Operator - Pumper

**Objectives:** NFPA Standard 1002, Chapter 4, Paragraph 4.2.1  
NFPA Standard 1002, Chapter 5, Paragraph 5.1.1

**Task:** Conduct and document routine tests, inspections, and servicing functions.

**Setting:** Fire department vehicle stalls, ramps or training areas.

**Tools Equipment:** Fire department pumper apparatus, local service records, forms and apparatus history card.

**Attainment Standard:** Successfully complete all elements/steps within 60 minutes.

# 1. Pre-Operations

Elements/Steps	Standards	Yes	No
1. Identify and explain the use of the fire apparatus record (if applicable)	1. In accordance with (IAW) <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> and local policies and procedures  A. Tracked vital information such as pump, engine, and capacities	_____	_____
2. Identify and explain the use of the history record (if applicable)	2. IAW <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> and local policies and procedures  A. Recorded basic service information including condition of body, pump, engine hours, road mileage, etc.	_____	_____
3. Identify and explain the use of the fire apparatus maintenance and inspection forms (In addition to the following, checklists and inspections in the applicable technical order must be accomplished)	3. IAW <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> and local policies and procedures  A. Identified and explained the use of fire apparatus maintenance and inspection forms	_____	_____
4. Demonstrate the procedure for inspecting all apparatus components.	4. IAW <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> and local policies and procedures, inspected:		
<b>A. Inside driver compartment</b>	<b>A. Inside driver compartment</b>		
B. Outside the apparatus	1. Checked all apparatus controls and gauges	_____	_____
C. Engine compartment	2. Checked fuel levels and filled as needed	_____	_____
D. Fire pump	3. Checked all interior lights	_____	_____
E. Water tank	4. Checked horn	_____	_____
F. Foam tank/system	5. Checked mirrors	_____	_____
G. Tools and Equipment	6. Checked public address system and radio	_____	_____
	7. Checked audible and visual warning devices	_____	_____
	8. Tested brake pressure by operating foot pedal	_____	_____

# 1. Pre-Operations

Elements/Steps	Standards	Yes	No
	9. Checked windshield wipers	_____	_____
	10. Checked map case	_____	_____
	11. Inspected seats for tears and adjustability	_____	_____
	12. Checked seatbelts for operation and wear	_____	_____
	13. Checked emergency and parking brakes	_____	_____
	14. Checked circuit breakers and/or fuses (if applicable)	_____	_____
	15. Checked steering wheel adjustment and reaction	_____	_____
	16. Checked heater/air conditioner operation	_____	_____
	17. Checked clutch pedal (if applicable)	_____	_____
	18. Checked turrets (if applicable)	_____	_____
	19. (M) Checked communication systems	_____	_____
A. Inside driver compartment			
<b>B. Outside the apparatus</b>	<b>B. Outside the apparatus</b>		
C. Engine compartment	1. Checked body panel for rust, dents, or exposed areas needing touch-up paint	_____	_____
D. Fire pump	2. Checked tires for proper inflation	_____	_____
E. Water tank	3. Checked wheel lugs for tightness	_____	_____
F. Foam tank/system	4. Checked all exterior lights for operation and damage	_____	_____
G. Tools and Equipment	5. Checked circuit breakers and/or fuses	_____	_____
	6. Checked weather seals around cab and compartment doors for looseness, damage and deterioration	_____	_____
	7. Inspected windows for cracks or discoloration	_____	_____
	8. Checked battery terminals and cleaned as needed	_____	_____
	9. Checked battery cables for loose connections	_____	_____
	10. Checked electrolyte level and added water as needed	_____	_____
	11. Checked for fuel or oil leaks	_____	_____

# 1. Pre-Operations

Elements/Steps	Standards	Yes	No	
A. Inside driver compartment	<b>C. Engine compartment</b>			
B. Outside the apparatus				
<b>C. Engine compartment</b>		1. Checked all drive belts for wear or defects; adjusted as needed	_____	_____
D. Fire pump		2. Checked coolant overflow reservoir for leaks and filled as needed	_____	_____
E. Water tank		3. Checked cooling fan, cooling system hoses, and the radiator	_____	_____
F. Foam tank/system		4. Checked coolant level, color and cleanliness and filled, if necessary	_____	_____
G. Tools and Equipment		5. Checked all oil levels; checked for leaks on engine and drive train	_____	_____
		6. Checked all hydraulic fluid levels; checked for leaks	_____	_____
		7. Checked brake/master cylinder fluid level and filled it as needed (if applicable)	_____	_____
		8. Checked power steering reservoir and filled it as needed (if applicable)	_____	_____
		9. Checked the automatic transmission fluid level, both cold and hot	_____	_____
		10. Checked the air filter restriction gauge	_____	_____
		11. Checked the windshield washer fluid level	_____	_____
		12. Checked any exposed wiring for breaks, loose connections, and insulation frays	_____	_____
		13. Checked the emergency shutdown for proper operation	_____	_____
		14. Checked the exhaust system for leaks and damage	_____	_____
	15. Checked the air system for leaks with the air system and the engine shut off	_____	_____	
	16. Checked the fuel filter for fuel/water separation and leaks/damage	_____	_____	
A. Inside driver compartment	<b>D. Fire pump</b>			
B. Outside the apparatus				
C. Engine compartment	1. Opened all pump drains and flushed sediment	_____	_____	
<b>D. Fire pump</b>	2. Checked and cleaned intake strainers	_____	_____	
E. Water tank				
F. Foam tank/system				

# 1. Pre-Operations

Elements/Steps	Standards	Yes	No
G. Tools and Equipment	3. Checked pump gear box for proper oil level and traces of water	_____	_____
	4. Operated pump primer with all pump valves closed	_____	_____
	5. Operated changeover valve while pumping from booster tank (applies to two-stage pumps only)	_____	_____
	6. Operated all valves, including the relief valve	_____	_____
	7. Checked all other pump panel instruments for proper operation	_____	_____
	8. Operated valves in auxiliary cooling system	_____	_____
A. Inside driver compartment	<b>E. Water tank</b>		
B. Outside the apparatus			
C. Engine compartment	1. Filled water tank to capacity	_____	_____
D. Fire pump	2. Checked inside surface for corrosion and cleanliness	_____	_____
<b>E. Water tank</b>	3. Checked water tanks for leaks	_____	_____
F. Foam tank/system			
G. Tools and Equipment			
A. Inside driver compartment	<b>F. Foam tank/system</b>		
B. Outside the apparatus			
C. Engine compartment	1. Filled foam tank to capacity	_____	_____
D. Fire pump	2. Checked foam tank for leaks	_____	_____
E. Water tank	3. Tested the accuracy of the foam proportioning system per manufacturer's guidance	_____	_____
<b>F. Foam tank/system</b>			
G. Tools and Equipment			
A. Inside driver compartment	<b>G. Tools and equipment</b>		
B. Outside the apparatus			
C. Engine compartment	1. Checked portable extinguishers-weighed and checked gauge	_____	_____
D. Fire pump	2. Checked hose loads for correct finishes	_____	_____
E. Water tank	3. Inventoried all nozzles and appliances	_____	_____
F. Foam tank/system	4. Checked pressure in all SCBA cylinders	_____	_____
<b>G. Tools and Equipment</b>	5. Inspected SCBA regulators and face pieces	_____	_____
	6. Checked all hand lights	_____	_____
	7. Checked and operated all power tools	_____	_____
	8. Checked all hand tools	_____	_____

## **2. Driving**

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### **SKILLS TEST 2 - Driving Station**

#### **Performance Test Summary Sheet**

**Objectives:** NFPA Standard 1002, Chapter 4, Paragraphs 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6 and 4.3.7  
NFPA Standard 1002, Chapter 5, Paragraph 5.1.2

- Tasks:**
1. Drive a Fire Department Pumper Apparatus.
    - a. Predetermined route on public roadway
    - b. Restricted space backing (alley dock exercise)
    - c. Maneuver around obstacles (serpentine exercise)
    - d. 180 degree turn-around (confined space turn-around)
    - e. Diminishing clearance
    - f. Defensive driving (lane change)
    - g. Operate vehicle fixed systems and equipment

### Performance Test Item – Pre-Determined Driving Course

<b>Personnel Classification:</b>	<b>Driver/Operator - Pumper</b>
<b>Objectives:</b>	<b>NFPA Standard 1002, Chapter 4, Paragraphs, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6 and 4.3.7 NFPA Standard 1002, Chapter 5, Paragraph 5.1.2</b>
<b>Task:</b>	Drive a Fire Department Pumper Apparatus.
<b>Setting:</b>	Predetermined driving course, fire department training ground or other suitable area for driving course set up.
<b>Tools Equipment:</b>	Pumper apparatus, cones, ruler, and scorecard.
<b>Attainment Standard:</b>	Completion of all elements/steps within 30 minutes.

## 2. Driving

Elements/Steps	Standards	Yes	No
1. Drive a predetermined course	1. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> and <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> .		
	A. Made 4 left turns		
	1. Activated left signal turn	_____	_____
	2. Checked the side and rear view mirrors	_____	_____
	3. Moved vehicle to left lane when necessary	_____	_____
	4. Checked for oncoming traffic	_____	_____
	5. Checked to see if side street or road is clear	_____	_____
	6. Made safe left turns	_____	_____
	B. Made 4 right turns		
	1. Activated the right turn signal	_____	_____
	2. Checked side and rear view mirrors	_____	_____
	3. Moved to the right lane, if necessary	_____	_____
	4. Checked for oncoming traffic	_____	_____
	5. Checked to see if side street or road was clear	_____	_____
	6. Safely made the right turns	_____	_____
	C. Drove straight section of road or highway		
	1. Maintained vehicle speed	_____	_____
	2. Checked for oncoming traffic	_____	_____
	3. Checked side and rear view mirrors	_____	_____
	4. Checked side streets or roads	_____	_____
	D. Passed through one intersection		
	1. Approached the intersection with caution	_____	_____
	2. Brought the apparatus to a complete stop, if necessary	_____	_____
	3. Checked for traffic on the left, right, and left again	_____	_____
	4. Safely proceeded through the intersection	_____	_____

## 2. Driving

Elements/Steps	Standards	Yes	No
E. Passed through two intersections with stop			
	1. Approached intersection with caution	_____	_____
	2. Brought the vehicle to a complete stop	_____	_____
	3. Checked traffic – left, right, and left again	_____	_____
	4. Safely proceeded through the intersection	_____	_____
F. Railroad crossing			
	1. Approached crossing with caution	_____	_____
	2. Checked tracks – left and right	_____	_____
	3. Stopped when necessary	_____	_____
	4. Proceeded across tracks when safe to do so	_____	_____
G. Curve in highway – right or left			
	1. Slowed vehicle before entering curve	_____	_____
	2. Adjusted speed as required	_____	_____
	3. Maintained safe control of vehicle	_____	_____
H. Entered limited access highway			
	1. Checked traffic while on entrance ramp	_____	_____
	2. Adjusted speed of vehicle to match flow of traffic	_____	_____
	3. Activated turn signal	_____	_____
	4. Checked side and rear view mirrors	_____	_____
	5. Moved vehicle from acceleration lane to highway safely	_____	_____
I. Changed lanes on limited access Highway			
	1. Activated turn signal	_____	_____
	2. Checked side and rear view mirrors	_____	_____
	3. Safely completed lane change	_____	_____

## 2. Driving

Elements/Steps	Standards	Yes	No
	J. Exited limited access highway		
	1. Activated turn signal	_____	_____
	2. Checked side and rear view mirrors	_____	_____
	3. Safely completed lane change	_____	_____
	4. Activated turn signal when exit was in sight	_____	_____
	5. Moved vehicle into deceleration lane	_____	_____
	6. Slowed vehicle and exited safely	_____	_____
	K. Downgrade		
	1. Downshifted before entering grade	_____	_____
	2. Made sure vehicle remained in gear	_____	_____
	3. Used brakes and lower gears	_____	_____
	4. Limited engine rpm – below redline	_____	_____
	L. Upgrade		
	1. Did not allow engine rpm to drop below minimum	_____	_____
	2. Automatic transmission downshifted automatically	_____	_____
	3. Downshifted standard transmission to maintain engine rpm and speed	_____	_____
	M. Underpass or low clearance		
	1. Approached with caution	_____	_____
	2. Checked to see if underpass height is marked	_____	_____
	3. Stopped and looked if height was not marked	_____	_____
	4. Proceeded only when sure it was safe to do so	_____	_____
2. Back vehicle into a restricted space (alley dock exercise)	2. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> and <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> .		
	A. Passed the "barricades" marking the loading dock on the left.	_____	_____
	B. Backed apparatus by a left turn into the marked loading dock	_____	_____

## 2. Driving

Elements/Steps	Standards	Yes	No
	C. Came to a complete stop in a smooth and safe manner	_____	_____
	D. Stopped where and when directed	_____	_____
	E. Used spotters when backing	_____	_____
	F. Completed exercise without pulling forward	_____	_____
	G. Completed exercise without striking obstructions	_____	_____
	H. Repeated steps A through G with the dock on the right	_____	_____
3. Maneuver around obstacles (serpentine exercise)	3. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> and <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> .		
	A. Drove apparatus along the left side of the markers in a straight line and stopped just beyond the last barrel/cone	_____	_____
	B. Backed the apparatus between the markers by passing to the left of #1, to the right of #2, and to the left of #3 and stop beyond the last barrel/cone using spotters	_____	_____
	C. Drove vehicle forward and to the right of #3, left of #2, and right of #1	_____	_____
4. Turn vehicle 180 degrees (confined space turn-around)	4. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> and <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> .		
	A. Pulled into a designated area through opening	_____	_____
	B. Made a U-turn by maneuvering vehicle	_____	_____
	C. Backed up at least once using spotters	_____	_____
	D. Exited area through same opening	_____	_____
5. Diminishing clearance horizontal and vertical clearances	5. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> and <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> .		
	A. Proceeded from wide to narrow end	_____	_____

## 2. Driving

Elements/Steps	Standards	Yes	No
	B. Did not touch markers	_____	_____
	C. Stopped with front bumper on the finish line (Rear bumper for driving in reverse)	_____	_____
	D. Came to a complete stop in a smooth and safe manner	_____	_____
	E. Stopped when and where directed	_____	_____
	F. Stopped vehicle before striking crossbar	_____	_____
	G. Repeated steps A through F in reverse with spotters	_____	_____
6. Defensive driving techniques	6. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> and <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> .		
<b>A. Adhered to all traffic regulations</b>	<b>A. Adhered to all traffic regulations</b>		
B. Fasten seat belts	1) (C) Used all applicable warning devices	_____	_____
C. Operate vehicle safely	2) (M) Ensured safety at intersections	_____	_____
D. Lane changes	3) Properly followed the right of way laws	_____	_____
E. Straight line vehicle positioning			
A. Adhered to all traffic regulations	<b>B. (C) Fastened seat belt</b> upon entering vehicle	_____	_____
<b>B. Fasten seat belts</b>			
C. Operate vehicle safely			
D. Lane changes			
E. Straight line vehicle positioning			
A. Adhered to all traffic regulations	<b>C. Operate vehicle safely</b>		
B. Fasten seat belts	1. Demonstrated responsibility and concern for safety of apparatus and personnel while driving apparatus	_____	_____
<b>C. Operate vehicle safely</b>	2. (M) Adjusted speed for weather conditions	_____	_____
D. Lane changes	3. (M) Adjusted stopping distances	_____	_____
E. Straight line vehicle positioning	4. Slowed gradually by pumping brakes	_____	_____
	5. Ensured all personnel wear seatbelts	_____	_____

## 2. Driving

Elements/Steps	Standards	Yes	No
	6. Braking – stopped smoothly		
	a. Avoided skidding situations	_____	_____
	b. Compensated for vehicle weight shifting	_____	_____
	7. Spotted apparatus at curb and out of traffic lane	_____	_____
	8. Maintained vehicle control while backing	_____	_____
	a. Used spotters	_____	_____
A. Adhered to all traffic regulations	<b>D. Lane changes</b>		
B. Fasten seat belts	1. Approached the first lane at a safe speed	_____	_____
C. Operate vehicle safely	2. Followed flash card directions	_____	_____
<b>D. Lane changes</b>	3. Drove in the designated lane	_____	_____
E. Straight line vehicle positioning			
A. Adhered to all traffic regulations	<b>E. Straight line vehicle positioning</b>		
B. Fasten seat belts	1. Traveled in a forward direction without weaving	_____	_____
C. Operate vehicle safely	2. Accelerated through gears without stopping	_____	_____
D. Lane changes	3. Did not touch markers	_____	_____
<b>E. Straight line vehicle positioning</b>	4. Came to a complete stop in a smooth and safe manner	_____	_____
	5. Stopped with the front bumper on the finish line (Rear bumper for driving in reverse)	_____	_____
	6. Stopped when and where directed	_____	_____
	7. Repeated steps 1 through 6 in reverse with spotters	_____	_____
7. Operate vehicle equipment	7. IAW manufactures data, checklist, or other applicable information.		
	A. Donned appropriate safety gear	_____	_____
	B. Checked all components of the equipment	_____	_____
	C. Started equipment (if applicable)	_____	_____

## 2. Driving

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Elements/Steps	Standards	Yes	No
	D. Operated equipment within manufactures specifications	_____	_____
	E. Shut equipment down (if applicable)	_____	_____
	F. Stored equipment using proper procedures	_____	_____

### Driving Course Specifications

Utilize this sheet to design your driving course in relation to the vehicles you have assigned. Please set up your course per calculations outlined below.

#### Key

VW = Vehicle Width

VL = Vehicle Length

ft = feet

Exercise	Dimensions
<b>Alley Dock</b>	Depth of Dock: VL plus 3 ft Width of Dock: VW plus 2 ft Wall distance from Dock entrance: VL multiplied by 1.48 ft
<b>Serpentine</b>	Distance between cones: VL multiplied by 1.25 ft
<b>Confined Space Turnaround</b>	Entrance Width: VW plus 4 ft Width of Space: VL multiplied by 1.85 ft Length of Space: VL multiplied by 3.7 ft
<b>Diminishing Clearance</b>	Wide Entrance: VW plus 1.5 ft Narrow Point: VW plus 2 inches
<b>Lane Change</b>	Width of Lanes: VW plus 2 ft Length of Lanes: VL multiplied by 1.85 ft Distance between lanes: VL multiplied by 1.11 ft
<b>Straight Line Positioning</b>	Width of Lane: VW plus 4 ft Length of Lane: VL multiplied by 7.4 ft (e.g. VL is 47 ft; $47 \times 7.4 = 348$ ft)

## 2. Driving

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### Driving Course Points

Type of Vehicle	Total Possible Points	Minimum Passing Score
Pumpers	450	360
Aerials/Tillers	450	360
ARFF Apparatus	450	360
Mobile Water Supply	450	360

### Driving Course Scorecard

OBSTACLE	PENALTY POINTS					
Candidates Name:						
Alley Dock						
Serpentine						
180° Turnaround						
Diminishing Clearance						
Lane Change						
Straight Line						
<b>Total Possible Points</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>450</b>
<b>Total Penalty Points</b>						
<b>Score</b>						
<b>Minimum Passing Score</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>400</b>
<b>Pass/Fail</b>						

### PENALTY POINT CHART

DESCRIPTION	ERROR	PENALTY POINTS
Alley dock (100 pts)	Distance from rear bumper to finish line	
	0 - 6 inches	0
	6 - 9 inches	5
	9 - 12 inches	10
	12 - 15 inches	15
	15 - 18 inches	20
	18 or more inches	50
	Each marker brushed, moved or overturned	5
Serpentine (50 pts)	Each marker brushed, moved or overturned	5
	Passing course marker on the wrong side	5
	Each time vehicle stops during the exercise	5
180° Turnaround (50 pts)	Each marker brushed, moved or overturned	5
	Failure to maintain constant motion or if vehicle stops	5
Diminishing clearance (100 pts)	Distance from front/rear bumper to finish line (Use the following criteria for both forward and reverse movement)	
	0 - 6 inches	0
	6 - 9 inches	5
	9 - 12 inches	10
	12 - 15 inches	15
	15 - 18 inches	20
	18 or more inches	50
	Each marker brushed, moved or overturned	5
	Vertical bar struck	25
Lane change (50 pts)	Failure to maintain a safe operating speed	10
	Each marker brushed, moved or overturned	5
	Each time the apparatus stops during the exercise	25
	Failure to take the lane marked by judges	25
	Failure to maintain control of apparatus	50
Straight line (100 pts)	Failure to maintain constant motion or if apparatus stops	25
	Each marker brushed, moved or overturned	5
	Forward/Reverse – Distance from rear/front bumper to finish line	
	0 - 6 inches	0
	6 - 9 inches	5
	9 - 12 inches	10
	12 - 15 inches	15
	15 - 18 inches	20
18 or more inches	50	
	Each marker brushed, moved or overturned	5

## **3. Operations**

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### **SKILLS TEST 3 - Operations Station**

#### **Performance Test Summary Sheet**

**Objectives:** NFPA Standard 1002, Chapter 5, Paragraphs 5.2.1, 5.2.2, 5.2.3 and 5.2.4

- Tasks:**
1. Pump from apparatus water tank, pump from hydrant, pump from draft, and transfer from the internal water tank to an external source.
    - a. Operate a relief valve or pressure control governor.
    - b. Produce an effective hand line stream and an effective master stream.
  2. Pump a supply line in relay pumper evolution.
  3. Produce a foam fire stream.
  4. Position pumper apparatus, establish water supply source, connect to and support a sprinkler or standpipe system, transfer power to pump, operate transfer valve.

## 3. Operations

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### Performance Test Item – Pump from Various Water Sources

**Personnel Classification:** Driver/Operator - Pumper

**Objective:** NFPA Standard 1002, Chapter 5, Paragraph 5.2.1

**Task:** Position, set up pumper apparatus, and perform the following operations:

1. Pump from the apparatus' internal tank.
2. Pump from a pressurized source (hydrant).
3. Pump from a static water source.
4. Transfer from the internal tank to an external source.

**Setting:** Fire department training ground with drafting source and fire hydrant.

**Tools Equipment:** Fire department pumper apparatus and associated tools and equipment.

**Attainment Standard:** Successful completion of all elements/steps within 30 minutes.



### 3. Operations

Elements/Steps	Standards	Yes	No
	<u>Apparatus Driver/Operator Handbook</u> , and local policies/procedures.		
	A. Selected the best drafting location based on accessibility, safety, and quantity of water	_____	_____
	B. Properly maneuvered/positioned apparatus considering intake hose limitations	_____	_____
	C. Connected suction hose to the apparatus and secured the strainer in the water	_____	_____
	D. Engaged the pump	_____	_____
	E. Engaged the priming device	_____	_____
	F. Increased the throttle to required engine pressure	_____	_____
	G. <b>(M)</b> Set relief valve or governor	_____	_____
	H. Monitored and shut down operation	_____	_____
4. Transfer from the internal tank to an external source	4. IAW <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> , <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> , and local policies/procedures.		
	A. Selected a water source (hydrant)	_____	_____
	B. Positioned the apparatus near the water source	_____	_____
	C. Deployed supply line and connected to attack apparatus	_____	_____
	D. Engaged the pump	_____	_____
	E. Opened tank-to-pump valve	_____	_____
	F. Opened the discharge valve slowly	_____	_____
	G. Set throttle for desired output pressure	_____	_____
	H. <b>(M)</b> Set relief valve or governor	_____	_____
	I. <b>(M)</b> Connected the apparatus to the external water source (hydrant)	_____	_____
	J. <b>(M)</b> Opened the intake valve	_____	_____
	K. <b>(M)</b> Closed the tank-to-pump valve	_____	_____
	L. <b>(M)</b> Pumped the supply line using the external water source	_____	_____
	M. Refilled internal water tank by opening the tank fill line	_____	_____
	N. Monitored and shut down operation	_____	_____

### **3. Operations**

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#### **Performance Test Item – Produce a Master Stream**

**Personnel Classification:** Driver/Operator - Pumper

**Objective:** NFPA Standard 1002, Chapter 5, Paragraph 5.2.1

**Task:** Demonstrate how to produce an effective master stream.

**Setting:** Fire department training area and water source.

**Tools Equipment:** Fire department pumper apparatus, 200 feet of 1 ½- or 1 ¾-inch hoseline, a 1 ½-inch adjustable spray nozzle, a master stream device equipped with 500 gpm adjustable spray nozzle.

**Attainment Standard:** Successfully complete all elements/steps within 15 minutes.

### 3. Operations

Elements/Steps	Standards	Yes	No
1. Demonstrate how to produce an effective hand line or master stream with a nozzle pressure of 100 psi	1. IAW <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> , <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> , and local policies/procedures.		
	A. Connected 200 feet of 1 ½-inch or larger hose or to a discharge outlet	_____	_____
	B. When pump was in gear, fully opened tank-to-pump valve	_____	_____
	C. If locking arrangement has been supplied, placed in open position	_____	_____
	D. Placed pump in a SERIES/PRESSURE or PARALLEL/VOLUME position (if applicable)	_____	_____
	E. Set throttle for desired discharge pressure	_____	_____
	F. (M) Opened discharge valve slowly and locked into place	_____	_____
	G. (M) Set the automatic pressure regulating device for desired discharge pressure	_____	_____
	H. Monitored and shut down operation	_____	_____

### **3. Operations**

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#### **Performance Test Item – Pump a Supply Line in a Relay Evolution**

**Personnel Classification:** Driver/Operator - Pumper

**Objective:** NFPA Standard 1002, Chapter 5, Paragraph 5.2.2

**Task:** Pump a supply line in a relay pumping evolution.

**Setting:** Fire department training area and water source.

**Tools Equipment:** Fire department pumper apparatus, attack fire apparatus, source apparatus, 400 feet of 2 ½-inch or larger supply line, water source.

**Attainment Standard:** Successful completion of all elements/steps within 15 minutes.

### 3. Operations

Elements/Steps	Standards	Yes	No
1. Pump a supply line in a relay pumping evolution	1. IAW <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> , <u>IFSTA Pumping Apparatus Driver/Operator Handbook</u> , and local policies/procedures.		
	A. Positioned/Maneuvered next to attack apparatus	_____	_____
	B. Connected pumper apparatus to attack apparatus	_____	_____
	C. Connected pumper apparatus to source apparatus	_____	_____
	D. Engaged pump while source apparatus connected to water source	_____	_____
	E. When connections were complete, and source apparatus was pumping at capacity	_____	_____
	1. Opened supply line from source apparatus	_____	_____
	2. Pumped at maximum capacity	_____	_____
	3. Opened discharge	_____	_____
	F. Monitored and shut down operation once attack operation complete	_____	_____

### 3. Operations

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#### **Performance Test Item – Produce a Foam Fire Stream**

<b>Personnel Classification:</b>	<b>Driver/Operator - Pumper</b>
<b>Objective:</b>	<b>NFPA Standard 1002, Chapter 5, Paragraph 5.2.3</b>
<b>Task:</b>	Produce a foam fire stream.
<b>Setting:</b>	Fire department training area.
<b>Tools Equipment:</b>	Fire department pumper apparatus, foam eductor, nozzle, 100 feet of 1 ½-inch or 1 ¾-inch hoseline and foam concentrate.
<b>Attainment Standard:</b>	Successful completion of all elements/steps within 10 minutes.

### 3. Operations

Elements/Steps	Standards	Yes	No
1. Produce a foam fire stream.	1. IAW <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications, IFSTA Pumping Apparatus Driver/Operator Handbook,</u> and local policies/procedures.		
	A. Assembled foam producing equipment including foam concentrate	_____	_____
	B. Connected foam eductor to discharge valve of pumper apparatus	_____	_____
	C. Connected hoseline and nozzle to discharge side of eductor	_____	_____
	D. Engaged the pump	_____	_____
	E. Opened throttle to adjust discharge pressure	_____	_____
	F. Opened discharge valve to the eductor	_____	_____

### 3. Operations

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#### Performance Test Item – Support a Sprinkler or Standpipe System

**Personnel Classification:** Driver/Operator - Pumper

**Objective:** NFPA Standard 1002, Chapter 5, Paragraph 5.2.4

**Task:** Position pumper apparatus, establish water supply source, and connect to and support a sprinkler or standpipe system, if applicable.

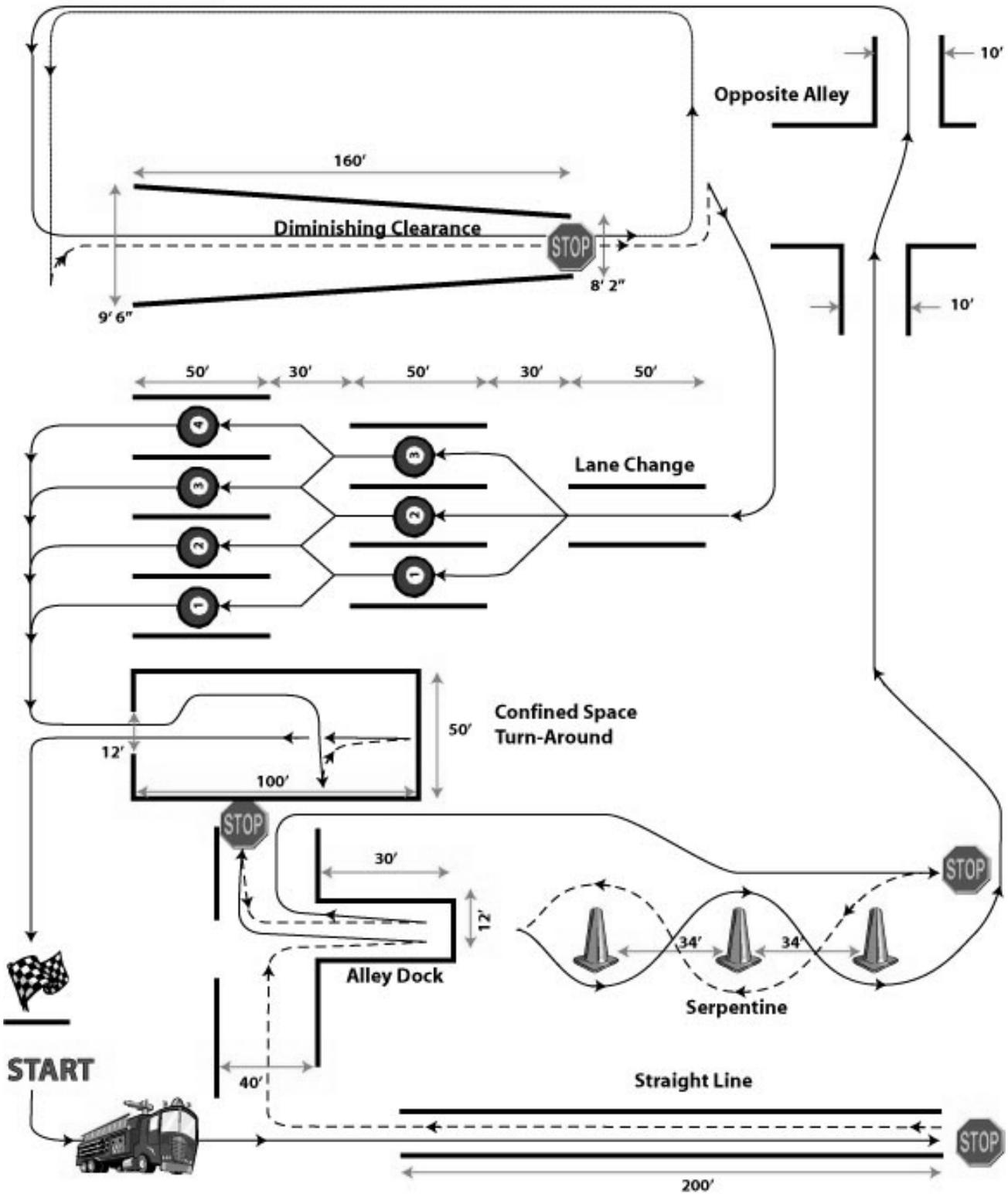
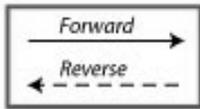
**Setting:** Fire department training area.

**Tools Equipment:** Fire department pumper apparatus, fire hose, adapters, spanner wrenches, and hydrant.

**Attainment Standard:** Successfully complete all elements/steps within 5 minutes of stopping the pumper apparatus.

Elements/Steps	Standards	Yes	No
1. Position the pumper and supply sprinkler or standpipe, if applicable	1. IAW <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications, IFSTA Pumping Apparatus Driver/Operator Handbook,</u> and local policies/procedures.		
	A. Located the fire department connection	_____	_____
	B. Located a water supply source	_____	_____
	C. Positioned pumper apparatus	_____	_____
	D. Connected a supply line from the water source to the pumper	_____	_____
	1. No kinks in soft intake hose	_____	_____
	E. Charged the supply line	_____	_____
	F. Connected a hoseline from the pumper to the fire department connection	_____	_____
	G. Developed and maintained 150 psi at the pump and maintain	_____	_____
	H. Operated the auxiliary cooling system, if applicable	_____	_____

# Driving Course



# Performance Test Record

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## Driver/Operator - Pumper

**INSTRUCTIONS:** This form must be completed and kept on file.

Date of Evaluation \_\_\_\_\_

Candidate Name \_\_\_\_\_ EMPLOYEE ID: \_\_\_\_\_

Evaluators Name \_\_\_\_\_ EMPLOYEE ID: \_\_\_\_\_

The candidate has PASSED/FAILED the Driver/Operator - Pumper Performance Tests for the stations marked below:

Performance Test Station	Passed	Failed
Pre-Operations		
Driving		
Operations		

If candidate has failed the performance evaluation, provide the following information:  
(Use additional sheets, if necessary)

Objective(s):

Reason(s) for failure:

Candidate Signature \_\_\_\_\_

A/C of Training Signature \_\_\_\_\_

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