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CDC 10024

Driver/Operator - Aerial

Supplementary Material for Volume 1: Performance Test



Air Force Institute for Advanced Distributed Learning
Air University
Air Education and Training Command

Acknowledgement

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Performance Test Instructions

This performance test provides detailed performance checklist items for candidate testing. Performance tests should not be conducted until the candidate has successfully completed the academic part of the CDC. 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 performance evaluations at anytime during study and up until performance testing is conducted. Practice is highly encouraged. Candidates must follow the guidance of Attachment 1 in the preparation of the papers that make up the entire product being submitted for evaluation.

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 to be accomplished. Each performance test lists the setting and tools/equipment needed for the listed tasks.

Some of the performance test tasks for the Driver/Operator Aerial require the use or completion of forms, letters, and other authority having jurisdiction documentation items. Performance tests must be completed in a proctored environment. Ideally, the candidate should be allowed the use of a word processor (computer) and necessary research documents as they are identified in the “tools/equipment” section of the performance test. The proctor’s primary responsibility is to monitor the student’s work to ensure that the candidate is completing their own work, had not previously completed the task and is simply downloading the work, and that the candidate is not using any form of performance test checklist to ensure all elements of performance test are completed. Candidates may have the checklist available during practice sessions.

Scenarios developed (when required for completion of the task) by the proctor should be as realistic and as complete as possible and development should be accomplished by a certified Aerial Driver/Operator. If possible, all “scenarios” should be actual situations occurring at the candidate’s installation. Proctors should review the checklist paying specific attention to the “Candidate/Evaluator” notes. Additionally, scenarios should be changed periodically to dissuade future candidates from gaining an unfair advantage or allowing for test compromise.

Performance test notification must be made ten days prior to the actual performance test beginning or the candidate stands the chance of the results NOT being accepted by the administrative center. For specific guidance consult DOD Manual 6055.06. Performance test notifications may be made at www.dodffcert.com/Performance

It is important also to understand the grading process used during the evaluation. For a full overview of the CDC process and performance testing please view the *Department of Defense Fire Fighter Certification Program Video*, P/N # 612888. Additional information on the grading is on the next page of this supplement.

Grading Criteria

The following criteria are used for evaluation and in determining the pass and/or fail status of a candidate. Each item in the Performance Test Checklist is given a rating:

Critical (C) – 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) – Assigned to items that are very important to the general safety of personnel and the successful completion of the task. 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 – Although there is no symbol, this category is assigned 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.

SKILLS TEST 1 – Preventive Maintenance

Performance Test Summary Sheet	1
Objectives: NFPA Standard 1002, Chapter 4, Paragraphs 4.2.1 and 4.2.2 NFPA Standard 1002, Chapter 6, Paragraph 6.1.1	1
Performance Test Item – Preventive Maintenance	2
Objectives: NFPA Standard 1002, Chapter 4, Paragraph 4.2.1 and 4.2.2 NFPA Standard 1002, Chapter 6, Paragraph 6.1.1	2

SKILLS TEST 2 – Driving Station

Performance Test Summary Sheet	10
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.....	10
Performance Test Item – Pre-determined Driving Course	11
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.....	11
Driving Course Specifications	19
Driving Course Points	20
Driving Course Scorecard	20
Penalty Point Chart	21

SKILLS TEST 3 – Operations Station

Performance Test Summary Sheet	22
Objectives: NFPA Standard 1002, Chapter 6, Paragraphs 6.2.1, 6.2.2, 6.2.3, 6.2.4 and 6.2.5	22
Performance Test Item – Operations	23
Objectives: NFPA Standard 1002, Chapter 6, Paragraphs, 6.2.1, 6.2.2, 6.2.3, 6.2.4 and 6.2.5.....	23
Driver/Operator – Aerial Performance Test Record	26
Attachment 1: Driving Course Graphic Example	28

Student Notes

1. Preventive Maintenance

SKILLS TEST 1 – Preventive Maintenance

Performance Test Summary Sheet

Objectives: NFPA Standard 1002, Chapter 4, Paragraphs 4.2.1 and 4.2.2
NFPA Standard 1002, Chapter 6, Paragraph 6.1.1

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

1. Preventive Maintenance

Performance Test Item –Preventive Maintenance

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

Objectives: NFPA Standard 1002, Chapter 4, Paragraph 4.2.1 and 4.2.2
NFPA Standard 1002, Chapter 6, Paragraph 6.1.1

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. Preventive Maintenance

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

1. Preventive Maintenance

Elements/Steps	Standards	Yes	No
	j. Checked map case	_____	_____
	k. Inspected seats for tears and adjustability	_____	_____
	l. Checked seatbelts for operation and wear	_____	_____
	m. Checked emergency and parking brakes	_____	_____
	n. Checked circuit breakers and/or fuses (if applicable)	_____	_____
	o. Checked steering wheel adjustment and reaction	_____	_____
	p. Checked heater/air conditioner operation	_____	_____
	q. Checked clutch pedal (if applicable)	_____	_____
	r. Checked turrets	_____	_____
	s. (M) Checked communication systems	_____	_____
1. Inside driver compartment	2. Outside the apparatus		
2. Outside the apparatus			
3. Engine compartment	a. Checked body panel for rust, dents, or exposed areas needing touch-up paint	_____	_____
4. Fire pump	b. Checked tires for proper inflation	_____	_____
5. Water tank	c. Checked wheel lugs for tightness	_____	_____
6. Foam tank/system	d. Checked all exterior lights for operation and damage	_____	_____
7. Tools and Equipment	e. Checked circuit breakers and/or fuses	_____	_____
8. Local policies and procedures	f. Checked weather seals around cab and compartment doors for looseness, damage and deterioration	_____	_____
	g. Inspected windows for cracks or discoloration	_____	_____
	h. Checked battery terminals and cleaned as needed	_____	_____
	i. Checked battery cables for loose connections	_____	_____
	j. Checked electrolyte level and added water as needed	_____	_____
	j. Checked for fuel or oil leaks	_____	_____
1. Inside driver compartment	3. Engine compartment		

1. Preventive Maintenance

Elements/Steps	Standards	Yes	No
2. Outside the apparatus			
3. Engine compartment			
4. Fire pump	a. Checked all drive belts for wear or defects; adjusted as needed	_____	_____
5. Water tank	b. Checked coolant overflow reservoir for leaks and filled as needed	_____	_____
6. Foam tank/system	c. Checked cooling fan, cooling system hoses, and the radiator	_____	_____
7. Tools and Equipment	d. Checked coolant level, color and cleanliness and filled, if necessary	_____	_____
8. Local policies and procedures	e. Checked all oil levels; checked for leaks on engine and drive train	_____	_____
	f. Checked all hydraulic fluid levels; checked for leaks	_____	_____
	g. Checked brake/master cylinder fluid level and filled it as needed (if applicable)	_____	_____
	h. Checked power steering reservoir and filled it as needed (if applicable)	_____	_____
	i. Checked the automatic transmission fluid level, both cold and hot	_____	_____
	j. Checked the air filter restriction gauge	_____	_____
	k. Checked the windshield washer fluid level	_____	_____
	l. Checked any exposed wiring for breaks, loose connections, and insulation frays	_____	_____
	m. Checked the emergency shutdown for proper operation	_____	_____
	n. Checked the exhaust system for leaks and damage	_____	_____
	o. Checked the air system for leaks with the air system and the engine shut off	_____	_____
	p. Checked the fuel filter for fuel/water separation and leaks/damage	_____	_____
1. Inside driver compartment	4. Fire pump		
2. Outside the apparatus			
3. Engine compartment	a. Opened all pump drains and flushed sediment	_____	_____
4. Fire pump	b. Checked and cleaned intake strainers	_____	_____
5. Water tank	c. Checked pump gear box for proper oil level and traces of water	_____	_____
6. Foam tank/system	d. Operated pump primer with all pump	_____	_____
7. Tools and Equipment			
8. Local policies and			

1. Preventive Maintenance

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

1. Preventive Maintenance

Elements/Steps	Standards	Yes	No
	h. Checked all hand tools	_____	_____
1. Inside driver compartment 2. Outside the apparatus 3. Engine compartment 4. Fire pump 5. Water tank F. Foam tank/system 7. Tools and Equipment	8. Local policies and procedures a. Performed all functions IAW local standard operating procedures and policies	_____	_____
8. Local policies and procedures			
E. Demonstrate the procedure for inspecting all apparatus components.	E. IAW <u>IFSTA Aerial Apparatus Driver/Operator Handbook, NFPA 1911, Inspection, Maintenance, Testing and Retirement of In-Service Automotive Fire Apparatus, 2007 Ed</u> and local policies and procedures, inspected:		
1. Cable systems (if applicable)			
2. Aerial device hydraulic system 3. Slides and rollers 4. Stabilizing systems 5. Aerial device safety systems 6. Breathing air systems 7. Communication system 8. Local policies and procedures	1. Cable System (if applicable) a. Inspected visually for free travel b. Checked for any signs of misalignment c. Checked for wear and defects d. Checked for proper lubrication e. Checked for proper operation	_____	_____
1. Cable systems (if applicable)			
2. Aerial device hydraulic system			
3. Slides and rollers 4. Stabilizing systems 5. Aerial device safety systems 6. Breathing air systems 7. Communication system 8. Local policies and procedures	2. Aerial device hydraulic system a. Checked visually for kinks b. Checked for any signs of cuts and abrasions c. Checked lines for any signs of fluid leaking d. Checked pump for any signs of fluid leaking	_____	_____

1. Preventive Maintenance

Elements/Steps	Standards	Yes	No	
1. Cable systems (if applicable)	3. Slides and rollers			
2. Aerial device hydraulic system		a. Checked for lubrication	_____	_____
3. Slides and rollers		b. Checked for any signs of wear and distortion	_____	_____
4. Stabilizing systems	c. Checked lines for proper adjustment	_____	_____	
5. Aerial device safety systems				
6. Breathing air systems				
7. Communication system				
8. Local policies and procedures				
1. Cable systems (if applicable)	4. Stabilizing systems			
2. Aerial device hydraulic system		a. Inspected all stabilizer components for defects and all welds for fractures	_____	_____
3. Slides and rollers		b. Verified it can be deployed within manufacturer time frame	_____	_____
4. Stabilizing systems	c. Checked lines for proper adjustment	_____	_____	
5. Aerial device safety systems				
6. Breathing air systems				
7. Communication system				
8. Local policies and procedures				
1. Cable systems (if applicable)	5. (C) Aerial device safety systems			
2. Aerial device hydraulic system		a. Reviewed all service records	_____	_____
3. Slides and rollers	b. Conducted safety inspection IAW manufacturers recommendations	_____	_____	
4. Stabilizing systems				
5. Aerial device safety systems				
6. Breathing air systems				
7. Communication system				
8. Local policies and procedures				
1. Cable systems (if applicable)	6. (M) Breathing air systems			
2. Aerial device hydraulic		a. Verified system is properly installed	_____	_____

1. Preventive Maintenance

Elements/Steps	Standards	Yes	No
system	b. Verified all components are present in serviceable condition	_____	_____
3. Slides and rollers			
4. Stabilizing systems	c. Inspected air cylinder mounting brackets	_____	_____
5. Aerial device safety systems	d. Verified the air pressure regulator is set at the apparatus manufacturer's recommended pressure	_____	_____
6. Breathing air systems			
7. Communication system			
8. Local policies and procedures			
1. Cable systems (if applicable)	7. (M) Communication system		
2. Aerial device hydraulic system	a. Inspected for proper installation	_____	_____
3. Slides and rollers	b. Inspected for proper operation	_____	_____
4. Stabilizing systems			
5. Aerial device safety systems			
6. Breathing air systems			
7. Communication system			
8. Local policies and procedures			
1. Cable systems (if applicable)	8. Local policies and procedures		
2. Aerial device hydraulic system	a. Performed all functions IAW local standard operating procedures and policies	_____	_____
3. Slides and rollers			
4. Stabilizing systems			
5. Aerial device safety systems			
6. Breathing air systems			
7. Communication system			
8. Local policies and procedures			

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

- Tasks:**
1. Drive a Fire Department Aerial 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

2. Driving

1. Performance Test Item – Pre-Determined Driving Course

Personnel Classification:	Driver/Operator - Aerial
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
Task:	Drive a Fire Department Aerial Apparatus.
Setting:	Predetermined driving course, fire department training ground or other suitable area for driving course set up.
Tools Equipment:	Aerial apparatus, cones, ruler, and scorecard.
Attainment Standard:	Completion of all elements/steps within 30 minutes.

2. Driving

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

2. Driving

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

2. Driving

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

2. Driving

Elements/Steps	Standards	Yes	No
	<ol style="list-style-type: none"> 1. Proceeded from wide to narrow end 2. Did not touch markers 3. Stopped with front bumper on the finish line (Rear bumper for driving in reverse) 4. Came to a complete stop in a smooth and safe manner 5. Stopped when and where directed 6. Stopped vehicle before striking crossbar 7. Repeated steps A through F in reverse with spotters 	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>F. Defensive driving techniques</p> <p>1. Adhered to all traffic regulations</p> <ol style="list-style-type: none"> 2. Fasten seat belts 3. Operate vehicle safely 4. Lane changes 5. Straight line vehicle positioning 	<p>F. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> and <u>IFSTA Aerial Apparatus Driver/Operator Handbook</u>.</p> <p>1. Adhered to all traffic regulations</p> <ol style="list-style-type: none"> a. (C) Used all applicable warning devices b. (M) Ensured safety at intersections c. Properly followed the right of way laws 	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<ol style="list-style-type: none"> 1. Adhered to all traffic regulations 2. Fasten seat belts 3. Operate vehicle safely 4. Lane changes 5. Straight line vehicle positioning 	<p>2. (C) Fastened seat belt upon entering vehicle</p>	<p>_____</p>	<p>_____</p>
<ol style="list-style-type: none"> 1. Adhered to all traffic regulations 2. Fasten seat belts 3. Operate vehicle safely 4. Lane changes 5. Straight line vehicle positioning 	<p>3. Operate vehicle safely</p> <ol style="list-style-type: none"> a. Demonstrated responsibility and concern for safety of apparatus and personnel while driving apparatus b. (M) Adjusted speed for weather conditions c. (M) Adjusted stopping distances d. Slowed gradually by pumping brakes 	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

2. Driving

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

2. Driving

Elements/Steps	Standards	Yes	No
	4. Operated equipment within manufactures specifications	_____	_____
	5. Shut equipment down (if applicable)	_____	_____
	6. Stored equipment using proper procedures	_____	_____

2. Driving

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.

NOTES:

1. Because of the overall size of the aerial apparatus, it is necessary to increase the distances used in setting up the driving course cones. Although there is no specific guidance available for adjustments, one method would be to add the difference in length (L) and width (W) between that of your pumper and aerial apparatus to the distance provided in NFPA Standard 1002, Appendix A.
2. **EXAMPLE:** The L and W of your pumper is 23 feet (L) by 8 feet (W) and the L and W of your aerial is 45 feet (L) by 10 feet (W). Then the distance of 22 added to the distance used for the cones for any particular task. Using the example above the diminishing clearance exercise would no longer measure 125" x 8'2" x 9'6" but rather approximately 150" x 10' 2" x 11' 6". Additional information can be obtained by calling the phone numbers in the preface of this document.

Key

VW = Vehicle Width

VL = Vehicle Length

ft = Feet

Exercise	Dimensions
Alley Dock	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
Serpentine	Distance between cones: VL multiplied by 1.25 ft
Confined Space Turnaround	Entrance Width: VW plus 4 ft Width of Space: VL multiplied by 1.85 ft Length of Space: VL multiplied by 3.7 ft
Diminishing Clearance	Wide Entrance: VW plus 1.5 ft Narrow Point: VW plus 2 inches
Lane Change	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
Straight Line Positioning	Width of Lane: VW plus 4 ft Length of Lane: VL multiplied by 7.4 ft (e.g. VL is 47 ft; 47 X 7.4 = 348 ft)

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

2. Driving

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

SKILLS TEST 3 - Operations

Performance Test Summary Sheet

Objectives: NFPA Standard 1002, Chapter 6, Paragraphs 6.2.1, 6.2.2, 6.2.3, 6.2.4 and 6.2.5

- Tasks:**
1. Operate an aerial apparatus
 - a. Maneuver and position apparatus
 - b. Stabilize an aerial apparatus
 - c. Operate from each control station
 - d. Lower aerial device using emergency operating system
 - e. Deploy and operate an elevated master stream

3. Operations

Performance Test Item – Operations

Personnel Classification: Driver/Operator - Aerial

Objectives: NFPA Standard 1002, Chapter 6, Paragraphs, 6.2.1, 6.2.2, 6.2.3, 6.2.4 and 6.2.5

Task: Operate a Fire Department Aerial Apparatus.

Setting: Fire department training ground or other suitable area for the situation description.

Tools Equipment: Aerial apparatus, hose, nozzles and associated equipment.

Attainment Standard: Completion of all elements/steps within 60 minutes.

3. Operations

Elements/Steps	Standards	Yes	No
A. Position aerial apparatus	A. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications and IFSTA Aerial Apparatus Driver/Operator Handbook</u>		
	1. Received:	_____	_____
	a. Operating instructions		
	b. Incident location		
	c. Situation description		
	d. Assignment		
	2. Avoided obstacles	_____	_____
	3. Positioned and stabilized apparatus	_____	_____
B. Stabilize aerial apparatus	B. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications and IFSTA Aerial Apparatus Driver/Operator Handbook</u>		
	1. Transferred power from vehicle engine to the hydraulic system	_____	_____
	2. Identified topography and ground conditions	_____	_____
	3. Operated vehicle stabilization devices	_____	_____
C. Maneuver and position the aerial device from each control station	C. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications and IFSTA Aerial Apparatus Driver/Operator Handbook</u>		
	1. Demonstrated ability to:	_____	_____
	a. Raise aerial device		
	b. Rotate aerial device		
	c. Extend aerial device		
	d. Position aerial device		
	e. Lock aerial device		
	f. Unlock aerial device		
	g. Retract and lower aerial device		
	h. Lower aerial device		
	i. Bed aerial device		
D. Lower the aerial device using the emergency operating system	D. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications and IFSTA Aerial Apparatus Driver/Operator Handbook</u>		

3. Operations

Elements/Steps	Standards	Yes	No
E. Deploy and operate an elevated master stream	1. Using the emergency operating system, demonstrated the ability to: <ul style="list-style-type: none"> a. Rotate and position aerial device to center b. Unlock aerial device c. Unlock aerial device d. Retract aerial device e. Lower aerial device f. Bed aerial device E. In accordance with <u>NFPA 1002: Fire Apparatus Driver/Operator Professional Qualifications</u> and <u>IFSTA Aerial Apparatus Driver/Operator Handbook</u>	_____	_____
	1. Connected a water supply to a master stream device 2. Controlled an elevated nozzle manually or remotely	_____	_____
		_____	_____

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Performance Test Record

Driver/Operator - Aerial

INSTRUCTIONS: This form must be completed and kept on file. A copy of this form is also required to be submitted with the candidate's certification package.

Date of Evaluation _____

Candidate Rank/Name _____ SSN _____

Evaluators Rank/Name _____ SSN _____

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

Performance Test Station	Passed	Failed
Preventive Maintenance	_____	_____
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 _____

Evaluator Signature _____

"FOUO. This document contains information exempt from mandatory disclosure under the FOIA. Exemption 5 U.S.C. 552(b)(6) applies. This information is also protected by the Privacy Act of 1974 and must be safeguarded from unauthorized disclosure."

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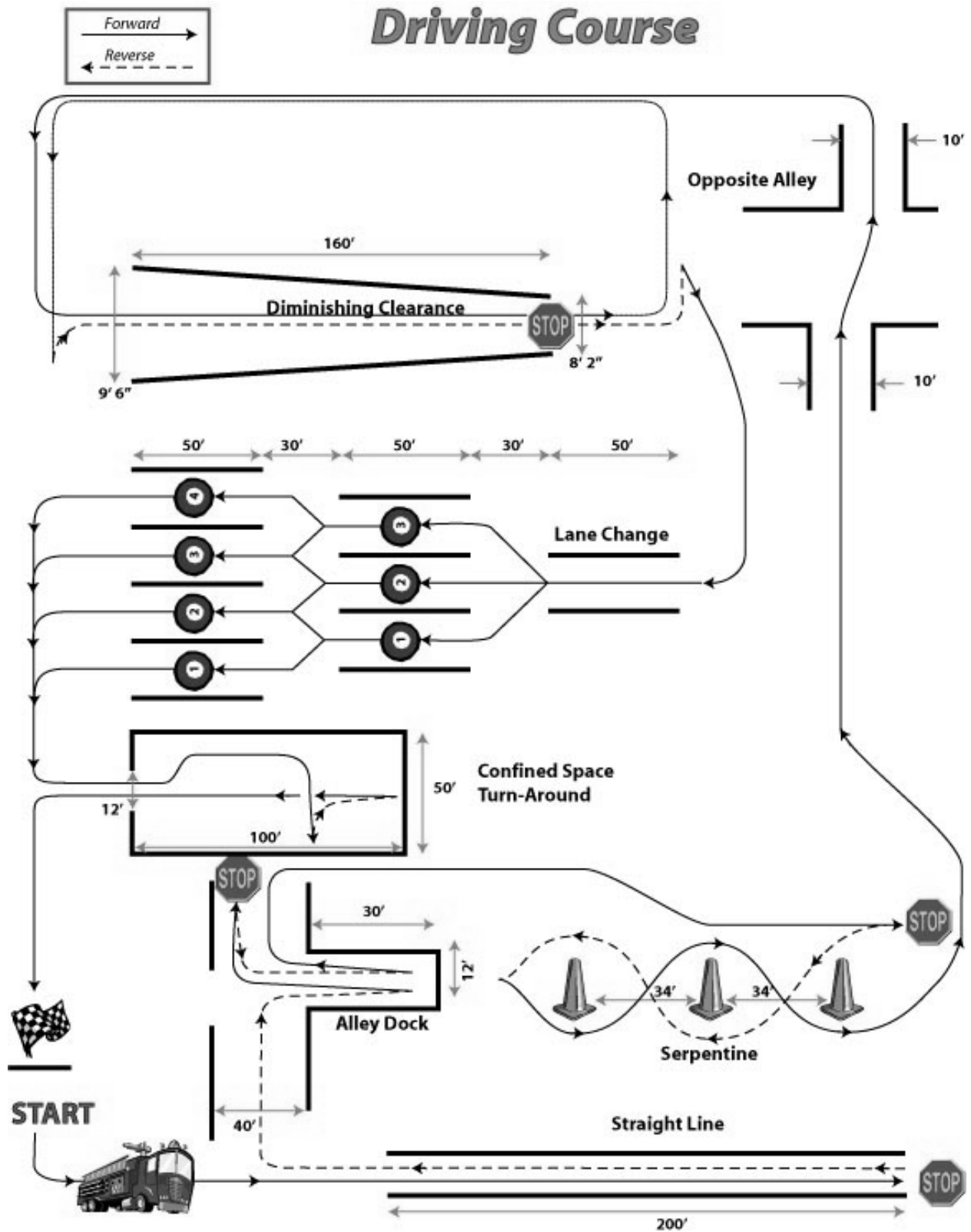


Figure 1

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Student Notes

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