

Fire Apparatus Driver/Operator Professional Qualifications Aerial Device

Skill Station Menu NFPA 1002 – Chapters 4 and 6 (2009 Edition)

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Notes:

- Stations A, C and D can be satisfied by candidate producing a valid/current class A or B Commercial Driver's License (CDL) without air brake restriction.
- Station E – If using elevating platform - candidate will need to operate aerial device from both the turntable and platform positions in order to meet requirements.
- Station D can be satisfied by providing a certificate of attendance for a 16 hour PA State Fire Academy Emergency Vehicle Driver Training (EVOC) program in which the individual completed the course using the aerial device in question. If unable to verify type/size of apparatus that was utilized to complete program, station D will become mandatory.

Apparatus Driver/Operator – Aerial Skill Sheets

Station “A” – Preventive Maintenance	Date:	Candidate #:
Reference NFPA 1002 (2009 Edition), Chapter 4 Mandatory Station: JPR 4.2.1 (1-11); 4.2.2	Site:	

Directions: Using appropriate PPE, perform routine tests, inspections, and servicing functions on the systems and components specified in the following list, given a fire department vehicle and its manufacturer’s specifications, so that the operational status of the vehicle is verified. Do you have any questions?

Performance Outcome: Pass/ Fail will be determined by 15 of the 15 items being preformed correctly

Evaluator Notes: Any items deemed not applicable should be marked N/A and total number of “yes” marks should be calculated based on applicable items only.

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
1.	Checks battery(ies) for condition, connections, charging, fluid (if applicable).				
2.	Check braking system, leaks, high pressure cut off, low air warning				
3.	Checks coolant system for leaks, hose conditions, system integrity				
4.	Checks vehicle electrical system, including functionality of all components				
5.	Checks fuel system integrity				
6.	Checks hydraulic fluids, and system integrity (if applicable)				
7.	Checks oil and misc. fluids, and system integrity				
8.	Checks tire thread depth, thread wear, condition, pressure				
9.	Check the steering system for smooth operation, fluid levels (if applicable), excessive free play and system integrity				
10.	Checks belts for wear, tension, condition				
11.	Checks for secure mounting of all tools, appliances and equipment				
12.	Utilizes tools/equipment for inspection appropriately.				

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13	Utilizes department maintenance/inspection forms to document findings and note any deficiencies				
14	Corrects any noted deficiencies in accordance with departmental policies and procedures				
15	Were all tasks completed in a <u>SAFE</u> manner? (NO INDICATES AUTOMATIC FAILURE)				

PASS____	PASS____
FAIL____	FAIL____

Evaluator Comments: _____

Evaluator Signature: _____ Evaluator # _____

Re-Test Evaluator Signature: _____ Evaluator # _____

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Fire Apparatus Driver/Operator – Aerial Skill Sheets

Station “B” - Aerial Pre-Use Inspection	Date:	Candidate #:
Reference NFPA 1002 (2009 Edition), Chapter 6 Mandatory Station: JPR 6.1.1 (1-7)	Site:	

Directions: Using appropriate PPE, Given a fire department aerial apparatus (with manufacturer’s specifications) determine readiness of aerial device on an aerial apparatus. Do you have any questions?

Performance Outcome: Pass/ Fail will be determined by 15 of the 15 items being preformed correctly

Evaluator Notes: Any items deemed not applicable should be marked N/A and total number of “yes” marks should be calculated based on applicable items only.

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
1.	Visually checks cable systems				
2.	Check hydraulic lines for leaks and tank level				
3.	Operates PTO and checks operation				
4.	Visually checks slides and rollers.				
5.	Visually checks stabilizer system				
6.	Visually checks leveling devices (if applicable)				
7.	Checks all safety systems / interlocks				
8.	Checks hydraulic pressure gauges				
9.	Checks load indicating devices (tip load/platform capacity if applicable)				
10.	Checks breathing air systems (if applicable)				
11.	Checks communication system				
12.	Checks master stream / waterway				
13.	Check tools, appliances and equipment for proper mounting				
14.	Utilizes tools/equipment for inspection appropriately				
15.	Identifies any deficiencies and applies corrective measures in accordance with departmental policies/procedures.				
16.	Were all tasks completed in a <u>SAFE</u> manner? (NO INDICATES AUTOMATIC FAILURE)				

PASS ____	PASS ____
FAIL ____	FAIL ____

Evaluator Comments: _____

Evaluator Signature: _____ Evaluator # _____

Re-Test Evaluator Signature: _____ Evaluator # _____

Fire Apparatus Driver/Operator – Aerial Skill Sheets

Station "C" – Driving – Highway Course	Date:	Candidate #:
Reference NFPA 1002 (2009 Edition), Chapter 4 Mandatory Station JPR 4.3.1 (1-9), 4.3.5, 4.3.6	Site:	

Directions: Operate a fire department vehicle, given a vehicle and a predetermined route on a public way that incorporates the maneuvers and features specified in the following list that the driver/operator is expected to encounter during normal operations, so that the vehicle is safely operated in compliance with all applicable state and local laws, departmental rules and regulations. Do you have any questions?

Performance Outcome: Pass/ Fail will be determined by 16 of the 16 items being performed correctly

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
1.	Utilizes passenger restraint systems as appropriate				
2.	Adjusts mirrors, seat height and steering wheel extension as appropriate				
3.	Negotiates four left and four right turns				
4.	Negotiates a straight section of urban business street or a two-lane rural road at least 1 mile (1.6 km) in length.				
5.	Negotiates one through-intersection and two intersections where a stop has to be made				
6.	Negotiates one railroad crossing				
7.	Negotiates one curve, either left or right				
8.	Negotiates a section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow two lane changes				
9.	Negotiates a downgrade steep enough and long enough to require down-shifting and braking				
10.	Negotiates an upgrade steep enough and long enough to require gear changing to maintain speed				
11.	Negotiates one underpass or a low clearance bridge				

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12.	Maintains safe following distance with other vehicles through course				
13	Operates apparatus in accordance with all applicable posted speed limits, lane restrictions and height/weight restrictions.				
14	Identify height, weight, and length of vehicle				
15	Ability to utilize communication system between cab and tiller position (tractor-drawn/tiller apparatus only).				
16	Were all tasks completed in a <u>SAFE</u> manner? (NO INDICATES AUTOMATIC FAILURE)				

PASS ____	PASS ____
FAIL ____	FAIL ____

Evaluator Comments: _____

Evaluator Signature: _____ Evaluator # _____

Re-Test Evaluator Signature: _____ Evaluator # _____

Fire Apparatus Driver/Operator – Aerial Skill Sheets

Station "D" – Obstruction Navigation	Date:	Candidate #:
Reference NFPA 1002 (2009 Edition), Chapter 4 Mandatory Station JPR 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6	Site:	

Directions: Operate a fire department vehicle, given a vehicle and a predetermined route on a public way that incorporates the maneuvers and features specified in the following list that the driver/operator is expected to encounter during normal operations, so that the vehicle is safely operated in compliance with all applicable state and local laws, departmental rules and regulations. Do you have any questions?

Performance Outcome: Pass/ Fail will be determined by 6 of the 6 items being preformed correctly

Evaluator Notes: Failure to use a spotter for backing/positioning operations will result in an automatic failure of the candidate

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
1.	Back a vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire department vehicle, a spotter, and restricted spaces 12 ft (3.66 m) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions				
2.	Maneuver a vehicle around obstructions on a roadway while moving forward and in reverse, given a fire department vehicle, a spotter for backing, and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.				
3.	Turn a fire department vehicle 180 degrees within a confined space, given a fire department vehicle, a spotter for backing, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space				
4.	Maneuver a fire department vehicle in areas with restricted horizontal and vertical clearances, given a fire department vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator accurately judges the ability of the vehicle to pass through the openings and so that no obstructions are struck				

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5.	Operate a vehicle using defensive driving techniques under emergency conditions, given a fire department vehicle and emergency conditions, so that control of the vehicle is maintained.				
6	Were all tasks completed in a <u>SAFE</u> manner? (NO INDICATES AUTOMATIC FAILURE)				

PASS ____	PASS ____
FAIL ____	FAIL ____

Evaluator Comments: _____

Evaluator Signature: _____ Evaluator # _____

Re-Test Evaluator Signature: _____ Evaluator # _____

Fire Apparatus Driver/Operator – Aerial Skill Sheets

Station “E” – Aerial Positioning and Operating	Date:	Candidate #:
Reference NFPA 1002 (2009 Edition), Chapter 6 Mandatory Station: JPR 6.2.1, 6.2.2, 6.2.3	Site:	

Directions: Given an incident location, maneuver and position an aerial apparatus so that the apparatus is properly positioned for safe aerial device (platform or ladder) deployment for rescue and ventilation activities. The operator will position the aerial for operations to a window and for roof operations. Do you have any questions?

Performance Outcome: Pass/ Fail will be determined by of the items being preformed correctly

Evaluator Notes: Any items deemed not applicable should be marked N/A and total number of “yes” marks should be calculated based on applicable items only. Please make sure to complete additional items within items # 6, 11, 13,

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
1.	Area is assessed for hazards - i.e. overhead wires, collapse zone, terrain				
2.	A spotter is used for positioning (if needed)				
3.	Apparatus is positioned according to applicable standards for given situation/scenario				
4.	Power is transferred to aerial system (PTO Engaged)				
5.	Apparatus wheels are chocked.				
6.	Stabilization system operated properly. <input type="checkbox"/> Auto leveling <input type="checkbox"/> Manual leveling				
7.	Aerial leveled to the proper level				
8.	Stabilization verified/locked – pinned (if applicable)				
9.	Power is transferred to aerial				
10.	Aerial device is maneuvered to achieve given objective				
11.	Load indicating devices checked (tip load/platform capacity) ___Plate ___Gauge ___Operating knowledge				
12.	Safety locks are engaged (where/if applicable) How verified_____				
13.	Controls were operated smoothly from <u>both</u> control stations (if applicable) – check which apply: ___ Turntable position ___ Platform position				

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14	Candidate remained clear of obstructions and overhead wires				
15	Aerial device is bedded correctly				
16	Stabilization system retracted/stowed properly				
17	Apparatus returned to service				
18	Were all tasks completed in a <u>SAFE</u> manner? (NO INDICATES AUTOMATIC FAILURE)				

PASS____	PASS____
FAIL____	FAIL____

Evaluator Comments: _____

 Evaluator Signature: _____ Evaluator # _____

Re-Test Evaluator Signature: _____ Evaluator # _____

Fire Apparatus Driver/Operator – Aerial Skill Sheets

Station "F" – Aerial – Emergency Lowering	Date:	Candidate #:
Reference NFPA 1002 (2009 Edition), Chapter 6 Random Station: JPR 6.2.4	Site:	

Directions: Given a fire department aerial device, the candidate will demonstrate lowering the aerial from a raised and extended height using the emergency back up system. The aerial will be stowed for travel. Do you have any questions?

Performance Outcome: Pass/ Fail will be determined by 7 of the 7 items being preformed correctly

Evaluator Note: Manufacturer information for apparatus must be supplied for evaluation

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
1.	Area is assessed for hazards - i.e. wires, tree limbs etc.				
2.	Emergency operating system activated				
3.	Aerial device retracted, centered, and bedded in accordance with manufacturer's recommendations and procedures				
4.	Stabilizers retracted and bedded in accordance with manufacturer's recommendations and procedures				
5.	Emergency operating system restored to normal mode				
6.	Vehicle restored to driving mode (aerial device moved out of hazard area)				
7.	Were all tasks completed in a <u>SAFE</u> manner? (NO INDICATES AUTOMATIC FAILURE)				

PASS ____	PASS ____
FAIL ____	FAIL ____

Evaluator Comments: _____

Evaluator Signature: _____ Evaluator # _____

Re-Test Evaluator Signature: _____ Evaluator # _____

Fire Apparatus Driver/Operator – Aerial Skill Sheets

STATION “G” – Aerial – Master Streams	Date:	Candidate #:
Reference NFPA 1002 (2009 Edition), Chapter 6 Random Station: JPRs 6.2.5	Site:	

Directions: Produce an effective master stream, given a positive source, properly set up and position the aerial device for master stream operations. Making sure safety devices are set, the rated flow of the nozzle is achieved and maintained, and the aerial apparatus is continuously monitored for potential problems. Do you have any questions?

Performance Outcome: Pass/ Fail will be determined by 9 of the 9 items being preformed correctly

Evaluator Notes: Any items deemed not applicable should be marked N/A and total number of “yes” marks should be calculated based on applicable items only.

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
1.	Area is assessed for hazards – i.e. overhead wires, trees etc				
2.	Aerial device is properly positioned for water operations				
3.	Aerial device is properly set up and stabilized				
4.	Master stream device attached (if applicable)				
5.	Establish an appropriate water supply to waterway				
6.	Master stream device properly controlled (Remote or Manual)				
7.	Nozzle reaction monitored (water controlled slowly)				
8.	Tip loading or platform capacity monitored and not exceeded				
9.	Were all tasks completed in a <u>SAFE</u> manner? (NO INDICATES AUTOMATIC FAILURE)				

PASS ____	PASS ____
FAIL ____	FAIL ____

Evaluator Comments: _____

Evaluator Signature: _____ Evaluator # _____

Re-Test Evaluator Signature: _____ Evaluator # _____

Fire Apparatus Driver/Operator – Aerial

Skill Sheets

STATION “H” – Fixed Equipment Operations	Date:	Candidate #:
Reference NFPA 1002 (2009 Edition), Chapter 4 Random Station: JPR 4.3.7	Site:	

Directions: Operate all fixed systems and equipment on the vehicle not specifically addressed elsewhere in this standard, given systems and equipment, manufacturer’s specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies.

These types of equipment and systems include, but are not limited to, electric generation equipment, floodlighting systems, air compressors, air cascade systems, hydraulic rescue tool systems, power reels for air or hydraulic hoses. Other equipment may include such items as exhaust fans, saws and cord reels. Do you have any questions?

Performance Outcome: Pass/ Fail will be determined by 8 of the 8 items being preformed correctly

Evaluator Note: Evaluator should make every effort to pick a variety of systems/items for the candidate to operate. In situations in which the apparatus has a minimal amount of fixed or portable equipment, pick only those items available. The total number of “yes” marks needed for passing will be determined by the total number of systems/items available and/or picked by the evaluator.

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
	<u>Equipment/Systems Operated</u>				
	1. _____				
	2. _____				
	3. _____				
	4. _____				
	5. _____				
6.	All equipment/systems operated in accordance with manufacturer’s Recommendations and applicable departmental policies/procedures				
7.	Notes and corrects any deficiencies in accordance with departmental policies/procedures				
8.	Were all tasks completed in a <u>SAFE</u> manner? (NO INDICATES AUTOMATIC FAILURE)				

PASS____	PASS____
FAIL____	FAIL____

Evaluator Comments: _____

Evaluator Signature: _____ Evaluator # _____

Re-Test Evaluator Signature: _____ Evaluator # _____