

Minnesota Fire Service Certification Fire Apparatus Driver Operator Skills Testing

Apparatus Driver Operator NFPA 1002 2009 Edition



Requirements:

1. Prerequisite for FAO is NFPA 1001 Firefighter 1
2. Completed application form and fee of \$100 is covered.
3. Candidate will be required to complete three of the five Skill Stations determined at random by the evaluator.
4. PPE is required (no SCBA).
5. Candidate will be required to operate fire apparatus which may not be their own departments.

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SKILL STATION 1 INSPECTION AND MAINTENANCE

Candidate Number _____

Evaluator: _____

The candidate will complete a fire apparatus inspection given a fire department pumper and an inspection form so that the operational status of the vehicle is verified, noting any deficiencies or corrective actions required to be taken.

Reference: NFPA 1002 (2009 Edition) Section: 4.2.1, 4.2.2

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Battery(ies)- Water levels if appropriate and tight connections	_____ 5
Braking system- Pedal pressure, hydraulic leaks, air pressure	_____ 5
Coolant system- Fluid levels and leaks	_____ 5
Electrical system- lighting both normal and emergency	_____ 5
Fuel- Levels	_____ 10
Hydraulic fluids-Levels and leaks	_____ 5
Lubrication-	_____ 5
Oil- Levels and leaks	_____ 5
Tires- Tread wear and air pressure	_____ 5
Steering system	_____ 10
Belts- Worn spots and appropriate tightness	_____ 5
Tools-equipment checklist	_____ 5
Uses a vehicle maintenance and inspection forms	_____ 5
Documents proper operation	_____ 15
Documents and reports deficiencies	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

OR

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SKILL STATION 1 CONTINUED

INSPECTION AND MAINTENANCE

Candidate Number _____

Evaluator: _____

The candidate, given a fire department pumper, will perform routine tests and inspections, so that the operational status of the pumper is verified.

Reference: NFPA 1002 (2009 Edition) Section: 5.2.1

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Determines appropriate water tank level.	_____20
Determines appropriate foam tank level.	_____10
Pump shift operation	_____10
Checks and verifies tank level gauge.	_____10
Operates Intake valves.	_____10
Operates discharge valves	_____10
Checks and verifies pressure gauges.	_____10
Checks and verifies vacuum gauges.	_____10
Checks and verifies pump tachometer	_____10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 2

HIGHWAY DRIVING/OPERATING

Candidate Number _____

Evaluator: _____

The candidate will, given a fire department pumper and a predetermined route that incorporates the stated maneuvers, so that the vehicle is safely operated in compliance with all applicable laws and fire department procedures.

Reference: NFPA 1002 (2009 Edition) Section: 4.3.1 & 4.3.2

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Fastens seat belts	_____ Fail
Make 4 Left and 4 Right turns; (Criteria: Signaling, Mirror Check, Traffic Observation, Speed)	_____ 10
Drive the vehicle on a 1-mile straightaway. (Criteria: Speed, Traffic Observation, Intersection Observation)	_____ 10
Drive through an intersection. (Criteria: Speed, Traffic Observation)	_____ 10
Stop at two intersections with protected by stop signs and or lights. (Criteria: Speed, Braking, Complete Stop, Traffic Observation, Right of Way)	_____ 10
Stop at a railroad crossing. (Criteria: Speed, Traffic Observation, Right of Way)	_____ 10
Maneuver the vehicle around 1 curve (left or right). (Criteria: Speed, Traffic Observation, Acceleration out of curve)	_____ 10
Drive on a limited access on and off ramp. (Criteria: Speed, Signaling, Traffic Observation)	_____ 10
Drive on a limited access road with 2 lane changes. (Criteria: Speed, Lane Change, Signaling, Traffic Observation)	_____ 10
Drive the vehicle up and down a steep grade. (Criteria: Braking, Down and Up Shifting, Speed, Traffic Observation)	_____ 10
Drive the vehicle under a height-restricted overpass. (Criteria: Awareness of Vehicle Height)	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 3

OBSTACLE DRIVING

Candidate Number _____

The candidate will, given a Fire Department pumper, perform three of the following maneuvers in a safe manner and in compliance with all state and local laws: 1.) back a vehicle from a roadway into restricted places on both the right and left sides of the vehicle, given a spotter and restricted spaces 12 ft. 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 obstacles, 2.) maneuver a vehicle around obstructions on a roadway while moving forward and in reverse, given 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 traffic and without striking the obstructions, 3.) turn a vehicle 180 degrees within a confined space, given 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 vehicle in areas with restricted horizontal and vehicle clearances, given a course with 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 and 5.) Operate a fire department pumper using defensive driving techniques, so that control of the vehicle is maintained.

Reference: NFPA 1002 (2009 Edition) Section: 4.3.2 and 4.3.3

Competencies:

Backing

1. Back the vehicle into an alley dock from the left
(Criteria: Traffic Observation, Roadway Observation, Signaling, Observation of Spotter, Mirror Usage, No stopping until maneuver is complete, Does not strike course boundaries)
2. Back the vehicle into an alley dock from the right.
(Criteria: Traffic Observation, Roadway Observation, Signaling, Observation of Spotter, Mirror Usage, No stopping until maneuver is complete, Does not strike course boundaries)

Restricted Clearances:

1. Maneuver the vehicle through a serpentine forward and reverse
(Criteria: Does not hit course boundaries, appropriate speed, Spotter Observation, Mirror Usage)

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2. Turning in a Confined Space; Perform an unrestricted area U-turn.
(Criteria: Does not hit course boundaries, Stopping, Spotter Observation, Acceleration)

Diminishing Clearances:

1. Drive the vehicle through a diminishing clearance obstacle.
(Criteria: Appropriate speed, does not strike boundaries)
2. Drive the vehicle through an offset lane change obstacle.
(Criteria: Appropriate speed, does not strike boundaries)

Emergency Driving:

1. Drive the vehicle safely under simulated emergency conditions
(Criteria: Appropriate speed, Right of way, audible and visual signals activated)
2. Drive the vehicle safely through controlled intersection.
(Criteria: Appropriate speed, Right of way, audible and visual signals activated)

RATING & EVALUATION (for evaluator's use only)

Performance Rating: Pass Fail

Evaluator Comments: _____

Evaluator Signature: _____ Date: _____

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SKILL STATION 4

PUMPER OPERATION/STATIC WATER SUPPLY

Candidate Number _____

Evaluator: _____

The candidate given a pressurized water supply and a fire department pumper, will position it and operate off of its internal tank, given a length of intake hose, and appropriate fittings or tools, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continually monitored for problems.

Reference: NFPA 1002 (2009 Edition) Section: 5.2.1, 5.2.2, 5.2.3 & 5.2.4

Competencies:

Operational Skills:

1. Positions apparatus properly.
2. Sets Parking Brake.
3. Chocks Wheels.
4. Connects hose to proper outlets.
5. Operates power transfer from vehicle engine to pump.
6. Operates Pumper pressure control systems to charge line slowly.
7. Operates Pumper volume/pressure control system.
8. Operates auxiliary cooling system.

Switches over to external water source:

1. Switches from internal to external supply.
2. Does not interfere with water flow to hand or master stream device.

Flows water through:

1. Handline water stream.
2. Master stream solid bore.
3. Master stream fog nozzle.

Relay Pumping:

1. Proper pressure to next Pumper in relay.
2. Proper flow to next Pumper in relay.

Foam Fire Stream:

1. Properly puts foam system into service.
2. Selects appropriate type of foam.
3. Adjust percentage of foam according to manufacturer's specification.
4. Produces a properly proportioned foam fire stream.
5. Shut downs and flushes system properly.

Supplies water to sprinkler/standpipe system:

1. Properly positions apparatus.
2. Selects proper hose size (2 ½ inch or larger).
3. Properly connects hose from pumper to system.
4. Proper pressure (Maintain 150 PSI).

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SKILL STATION 4 CONTINUED

PUMPER OPERATION/PRESSURIZED WATER SUPPLY

Candidate Number _____ Evaluator: _____

The candidate given a pressurized water supply, will properly position a fire department pumper to the hydrant. Operator will then connect two (2) 2 1/2" – 100 foot lines to a 1 3/4" Straight Bore Master Stream and a 1 1/2(3/4)" – 150 foot line with a Fog Nozzle flowing 100 GPM to outlets on apparatus.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Position the apparatus to hydrant for length and to not kink	_____ 5
Sets parking brakes	_____ FAIL
Chocks wheels	_____ 10
Connects lines to proper outlets	_____ 5
Engages pump per manufacture's specifications	_____ 5
Charges 1 1/2(3/4)" line slowly for on board tank	_____ 5
Set line pressure (135 psi or 125 + or – 10 psi)	_____ 6
Set Pressure regulator according to manufacture's specifications	_____ 10
Open Hydrant (slowly and completely)	_____ 5
Change to hydrant supply	_____ 5
Maintain pressure on 1 1/2(3/4)" line	_____ 6

INSTRUCT CANDIATE TO PUT MASTER STREAM IN OPERATION

Change to volume if 2 stage pump	_____ 3
Charge Master Stream (slowly)	_____ 3
Set pressure to (150 psi + or – 10 psi)	_____ 6
Set Pressure regulator according to manufacture's specifications	_____ 10
Shut down lines slowly	_____ 5
Valve operations (slowly)	_____ 5
Throttle operation (slowly)	_____ 3
Prepare apparatus to "Back in Service Mode"	_____ 3

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 5 DRAFT PUMPER OPERATION/STATIC

Candidate Number _____

Evaluator: _____

The candidate given a static water supply and a fire department pumper, will position it and operate off of its internal tank, given a length of intake hose, and appropriate fittings or tools, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continually monitored for problems.

Reference: NFPA 1002 (2009 Edition) Section: 5.2.1, 5.2.2, 5.2.3 & 5.2.4

Competencies:

Operational Skills:

1. Positions apparatus properly.
2. Sets Parking Brake.
3. Chocks Wheels.
4. Connects hose to proper outlets.
5. Operates power transfer from vehicle engine to pump.
6. Operates Pumper pressure control systems to charge line slowly.
7. Operates Pumper volume/pressure control system.
8. Operates auxiliary cooling system.

Switches over to external water source:.....

1. Switches from internal to external supply.
2. Does not interfere with water flow to hand or master stream device.

Flows water through:

1. Handline water stream.
2. Master stream solid bore.
3. Master stream fog nozzle.

Relay Pumping:

1. Proper pressure to next Pumper in relay.
2. Proper flow to next Pumper in relay.

Foam Fire Stream:

1. Properly puts foam system into service.
2. Selects appropriate type of foam.
3. Adjust percentage of foam according to manufacturer's specification.
4. Produces a properly proportioned foam fire stream.
5. Shut downs and flushes system properly.

Supplies water to sprinkler/standpipe system:

1. Properly positions apparatus.
2. Selects proper hose size (2 ½ inch or larger).
3. Properly connects hose from pumper to system.
4. Proper pressure (Maintain 150 PSI).

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SKILL STATION 5 CONTINUED

PUMPER OPERATION/STATIC WATER SUPPLY

Candidate Number _____ **Evaluator:** _____

The candidate given a static water supply, will properly position a fire department pumper to the water supply and operate off of its internal tank, given a length of intake hose, and appropriate fittings or tools, 200' of 1 ½(¾)" line with 100 gpm fog nozzle, 100' of 2 ½' line with 250 gpm fog nozzle.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Position the apparatus so that the strainer reaches the bottom of the water source	_____ 3
Sets parking brakes	_____ FAIL
Chocks wheels	_____ 5
Connects lines to proper outlets	_____ 5
Engages pump per manufacture's specifications	_____ 3
Charges 1 ½(¾)" line slowly from on board tank	_____ 5
Set line pressure (150) or (130 psi) + or- 10 psi)	_____ 10
Set Pressure regulator according to manufacture's specifications	_____ 10

INSTRUCT CANDIDATE TO SWITCH OVER TO DRAFT

Connect the strainer device to the hard suction hose	_____ 3
Ensure connections are tight to prevent leaks	_____ 5
Operate primer as needed(30-45 seconds max) to manufactures specifications	_____ 5
Maintains (1 ½ 1 ¾) line pressure (150) or (130 psi) + or- 10 psi	_____ 10
Pressurize the 2 ½" line to the determined pressure (slowly)	_____ 5
Set pressure to (115 psi + or - 10 psi)	_____ 6
Maintain proper fire streams for 3 minutes	_____ 3
Maintain draft through the process	_____ 10
Shut down both hose lines (slowly)	_____ 3
Valve operations (slowly)	_____ 6
Throttle operation (slowly)	_____ 3
Disengage pump according to manufacture's recommendations	_____ 3
Prepare apparatus to "Back in Service Mode"	_____ 3

Total Points Possible 100

Total Deductions _____

Score _____