

Skill Set: Driving / Operating: Cone Course

Reference: NFPA 1002, 2017 Edition - Chapter 4, Sections 4.3.2 - Alley Dock; 4.3.3 - Serpentine Course; 4.3.4 - Confined Space Turn-around; 4.3.5 - Diminishing-Clearance Driving

Candidate Equipment Required: None

Evaluator Equipment Required: Pumper Apparatus; Traffic cones; Spotter; Closed-course driving area

Evaluator’s Instructions to the Candidate

At this station, you will demonstrate driving fire apparatus through various exercises that simulate actual driving situations. The evaluator will give you specific instructions at the beginning of each exercise.

You will have a spotter available, if you wish. You alone will be in the apparatus during this station. If you knock down any of the traffic cones during an exercise, that constitutes a failure for that exercise.

Candidate MUST successfully be competent in each of the steps listed to pass this skill station.

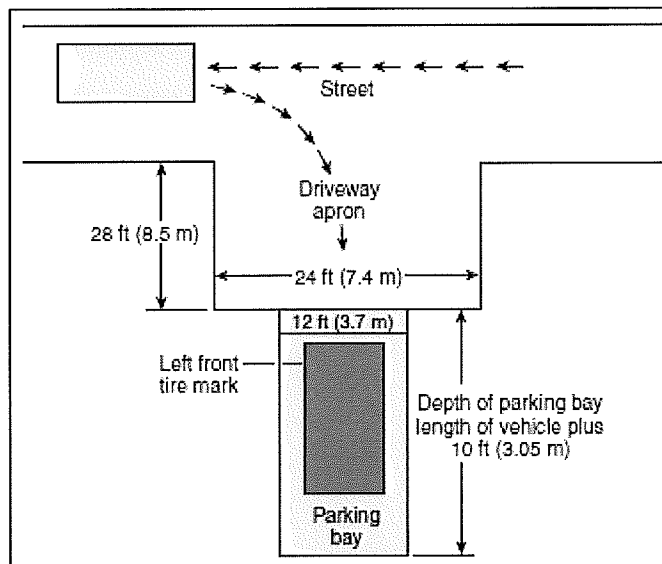
No.	Evaluated Skill Items	First Time		Retest	
		Pass	Fail	Pass	Fail
1.	Correctly operated passenger restraint devices.				
2.	Correctly use mirrors and judge vehicle clearance without knocking down cones: a. Back a vehicle into restricted spaces (Station Stall Parking) b. Maneuver around obstructions (Serpentine Course) c. Turn 180° within a confined space (Confined Space Turn-around) d. Maneuver in areas with restricted horizontal & vertical clearance (Diminishing-Clearance)				

(NOTE: See following pages for individual exercise descriptions)

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Skill Item 1a - Station Stall Parking Exercise:

This exercise measures a driver’s ability to drive past a station stall, back the apparatus into the space provided, and stop smoothly. A station stall can be simulated by arranging traffic cones as shown in the below diagram. The actual stall should be 12 ft. apart and the length will be 10 ft. longer than the apparatus used. The driver shall drive past the stall, with the stall on the left and then back the apparatus, using a left turn, into the stall. The driver will then exit the stall and the exercise shall be **repeated** with the stall on the right side, backing the apparatus using a right turn.

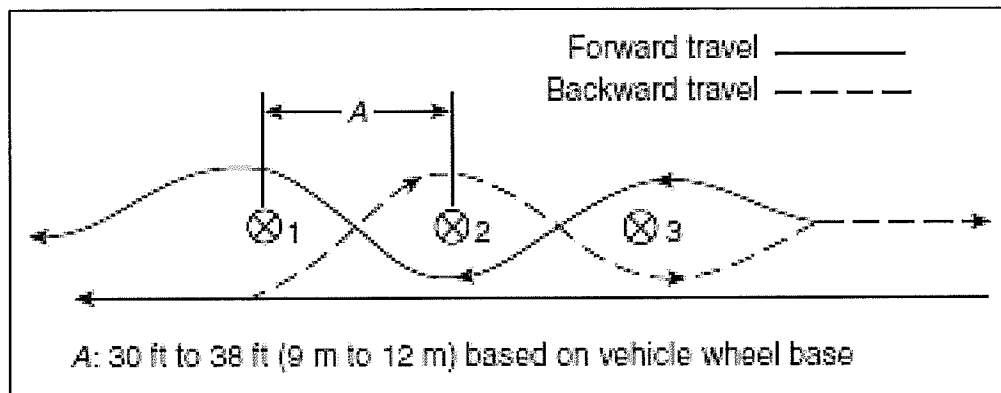


Skill Item 1b - Serpentine Course Driving Exercise:

This exercise measures a driver’s ability to steer the apparatus in close limits without stopping. The exercise should be conducted with the apparatus moving **first** backward, **then** forward. The course or path of travel for this exercise can be established by placing a minimum of three markers, each spaced 38 ft. apart, in a line. Adequate space must be provided on each side of the markers for the apparatus to move freely.

The driver should drive the apparatus along the left side of the markers in a straight line and stop just beyond the last marker. The driver then should begin the exercise by backing the apparatus between the markers by passing to the left of marker No. 1, to the right of marker No. 2, and to the left of marker No. 3.

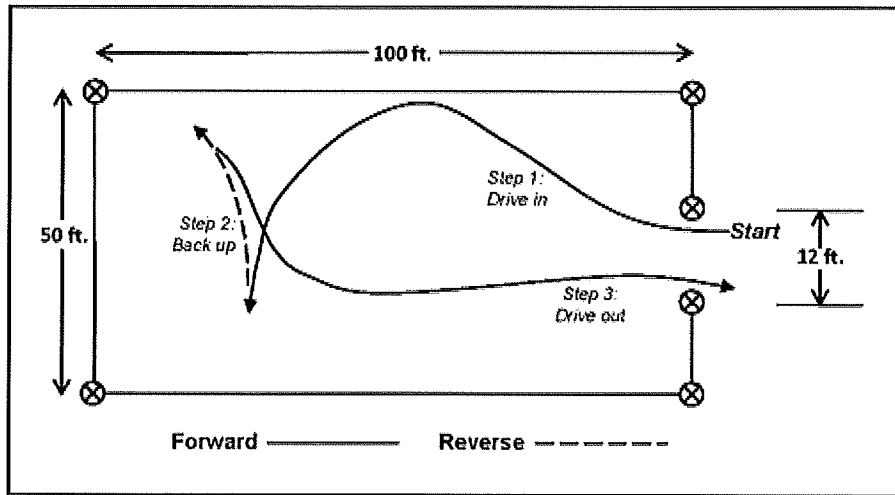
At this point, the driver should stop the vehicle and then drive it forward between the markers by passing to the right of marker No. 3, to the left of marker No. 2, and to the right of marker No. 1.



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Skill Item 1c - Confined Space Turn-around Exercise:

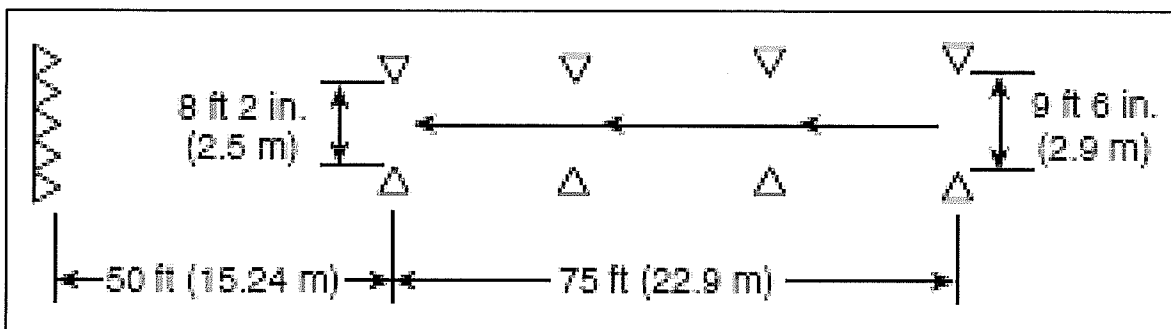
This exercise measures the driver's ability to turn the vehicle around in a confined space without striking obstacles. The turn is accomplished within an area 50 ft. x 100 ft. The driver moves into the area from a 12 ft. opening in the center of one of the 50 ft. legs, turns the vehicle 180 degrees, and returns through the opening. There is **no limitation** on the number of times the driver has to maneuver the vehicle to accomplish this exercise, but **no portion** of the vehicle should extend over the boundary lines of the space.



Skill Item 1d - Diminishing-Clearance Driving Exercise:

This exercise measures a driver's ability to steer the apparatus in a straight line, to judge distances from wheel to object, and to stop at a finish line. The speed at which a driver should operate the apparatus is optional, but it should be great enough to necessitate quick judgment.

The course for this exercise is created by arranging two rows of markers to form a lane 75 ft. long. The lane varies in width from 9 ft. 6 in. to a diminishing clearance of 8 ft. 2 in. The driver should maneuver the apparatus through this lane without touching the markers. The vehicle should be stopped at a finish line 50 ft. beyond the last marker. **No portion** of the vehicle should protrude beyond this line. (If the apparatus used for this exercise is wider than the given measurements, adjustments to the diminishing widths of each set of cones will be made based on the width of the apparatus used.)



Skill Set: Operations: Maneuver, Position and Stabilize an Aerial Apparatus / Maneuver and Position the Aerial Device from Each Control Station and Using the Emergency Operating System

Reference: NFPA 1002, 2017 Edition - Chapter 6 - Section 6.2.1 - Maneuver and Position an Aerial Apparatus; 6.2.2 - Stabilize an Aerial Apparatus; 6.2.3 - Maneuver and Position the Aerial Device from Each Control Station; 6.2.4 - Lower an Aerial Device Using the Emergency Operating System

Candidate Equipment Required: NFPA-Complaint Personal Protective Clothing Ensemble

Evaluator Equipment Required: Aerial apparatus; Multi-story training structure

Evaluator’s Instructions to the Candidate

At this station, you will demonstrate maneuvering, positioning and stabilizing an aerial apparatus. You will maneuver so that the apparatus is positioned for safe aerial device deployment. Once you have completed positioning the apparatus, you will demonstrate stabilizing and leveling the apparatus in preparation for aerial device deployment.

Once the apparatus is stabilized and leveled, you will demonstrate deploying the aerial device from its bedded position by raising, extending, and rotating the aerial device at the primary control station. *If applicable*, you will ascend the ladder to the remote control station. You will then rotate, retract and lower the aerial device to its bedded position in preparation to return the apparatus to service. Finally, you will explain procedures for lowering the aerial device using the emergency operating system.

Candidate MUST successfully be competent in each of the steps listed to pass this skill station.

No.	Evaluated Skill Items	First Time		Retest	
		Pass	Fail	Pass	Fail
1.	Determine a correct position for the apparatus and maneuver the apparatus into that position.				
2.	Avoid obstacles to operations.				
3.	Transferred power to the aerial hydraulic system.				
4.	Deploy the wheel chocks.				
5.	Stabilize the apparatus. Insert safety pins, <i>(if equipped)</i> and level the apparatus.				
6.	Raise, extend, and rotate the aerial device from its bedded position.				
7.	Rotate, retract, and lower the aerial device to its bedded position.				
8.	Explained emergency power operations and location of equipment/switches.				
9.	Retract the vehicle stabilization system.				
10.	Disengaged power from the aerial hydraulic system.				

Skill Set: Operations: Deploy and Operate an Elevated Master Stream

Reference: NFPA 1002, 2017 Edition - Chapter 6 - Section 6.2.5 - Deploy and Operate an Elevated Master Stream

Candidate Equipment Required: NFPA-Complaint Personal Protective Clothing Ensemble

Evaluator Equipment Required: Aerial apparatus; Designated area to flow an elevated master stream

Evaluator’s Instructions to the Candidate

At this station, you will demonstrate procedures to deploy and operate an elevated master stream.

You will be required to make any hose connections to your aerial apparatus necessary in order to establish an adequate water supply. Once your water supply is established, you will deploy and operate the elevated master stream at the correct flow rate per the apparatus’ manufacturer specifications.

Candidate MUST successfully be competent in each of the steps listed to pass this skill station.

No.	Evaluated Skill Items	First Time		Retest	
		Pass	Fail	Pass	Fail
1.	Position the apparatus.				
2.	Deploy wheel chocks.				
3.	Stabilize the apparatus. Insert safety pins, <i>(if equipped)</i> .				
4.	Establish an adequate water supply to the aerial apparatus.				
5.	Raise, extend, and position the aerial device for master stream operation.				
6.	Operate an elevated master stream at the correct volume and pressure.				
7.	Drain the waterway.				
8.	Lower, retract and bed the aerial device into the correct position.				