



Information Sheet Driver Operator Skills Evaluation

Course Setup

The Driver Operator Skills Course is setup on Aviator Avenue in Millbrae according to the diagram.

- The street to the north of the gas station, both driveways on the east end of the gas station and the driveway out of the BART parking lot should be coned off.
- Painted marks on the ground will assist with setting up the cones and pylons.
- 50 Cones and 3 pylons are needed to setup to course.

General Instructions

Read these instructions to the driver before starting the skills evaluation.

- The driver will be required to drive at a safe speed.
- The proctor will be evaluating the candidates driving from the outside of the apparatus.
- The spotter will position themselves before and during any backing exercise. The spotter will not direct the driver into position. The spotter is there to insure that the apparatus does not come in contact with any objects.
- The driver will be required to use the apparatus mirrors for all vision to the sides or rear of the apparatus. The driver will not be allowed to extend his/her head out of the window in order to guide the apparatus.
- Once the apparatus is in motion, it should remain in motion until a required stop or change of direction must be performed.
- If the driver stops the apparatus in order to make an correction or to reposition the apparatus this will be marked as a pull-up on the score sheet.

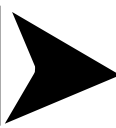
Exercise Instructions

In order to familiarize the driver with the driving course; they will walk the entire skills course with the proctor. The proctor will verbally explain the direction of travel through the course while giving verbal instructions for each exercise. The driver may also be given verbal instructions during the actual driving portion of the test.

See attached Driver Operator 1A instructions for scoring and evaluation of Driver Operator candidates.

Four mandatory skills are required to complete the Skills Course.

- 4-1-1 - Diminishing Clearance Exercise
- 4-1-2 - Serpentine Exercise
- 4-1-3 - Three-Point Turnaround Exercise
- 4-1-4 - Station Apparatus Backing Exercise
- 4-1-5 - Alley Dock Exercise



Must complete at least one of these two skills...



Information Sheet Driver Operator Skills Evaluation

Contact the Training Division for cones and pylons.

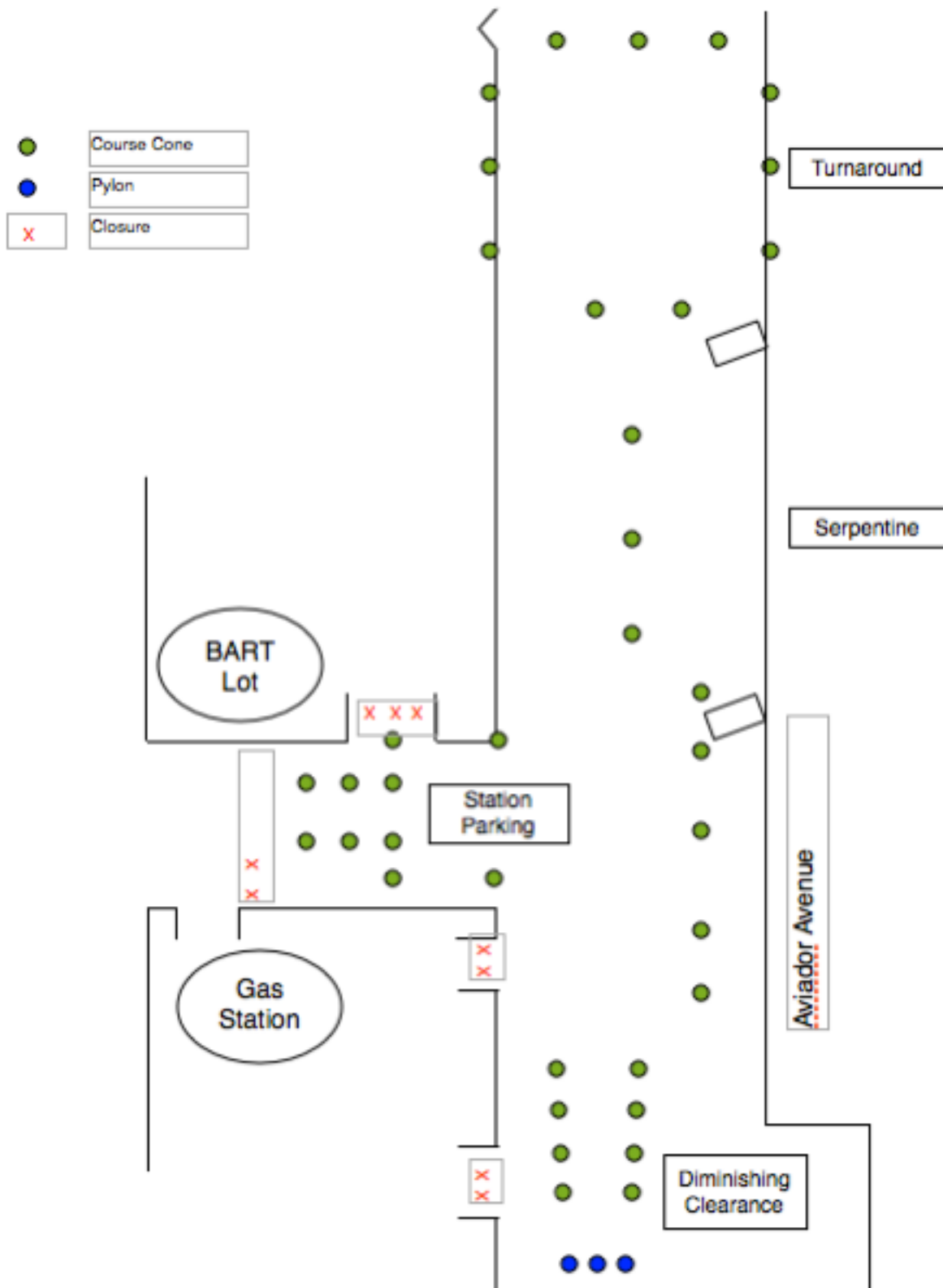
Please notify your Battalion Chief prior to performing Skills Evaluation.

Upon completion of skills evaluation please return skills scoring sheets to Training Division.





Information Sheet Driver Operator Skills Evaluation



Topic 4-1: Introduction to the Mandatory Driving Exercises

Student information for this topic can also be found in Pumping Apparatus Driver/Operator Handbook, IFSTA, Second Edition, Pages 90-92.

Mandatory Driving Exercise 4-1-1

Exercise:

Diminishing Clearance Exercise

This exercise measures your ability to steer the apparatus in a straight line, to judge distances from wheel to object, and to stop at a designated finish line. The speed at which the apparatus is driven is fast enough to require you to exercise quick judgment.

Time Frame:

None

Authority:

2009 NFPA 1002: Section A.4.3.5

Materials Needed:

- Fire apparatus
- 8,250 square foot area
- 48-inch pillars (9)
- Stopwatch
- 100-foot tape measure

Student Directions:

1. Accelerate to the course speed in the approach area.
2. Maneuver the apparatus through the lane without touching the side markers.
3. At the designated end marker, stop the apparatus with the front bumper short of the end marker.
4. Wait for the end measurement to be taken.
5. When instructed, back the apparatus through the lane without touching the side markers.
6. Stop the apparatus after clearing entry markers.

Scoring:

100 points possible

80% passing

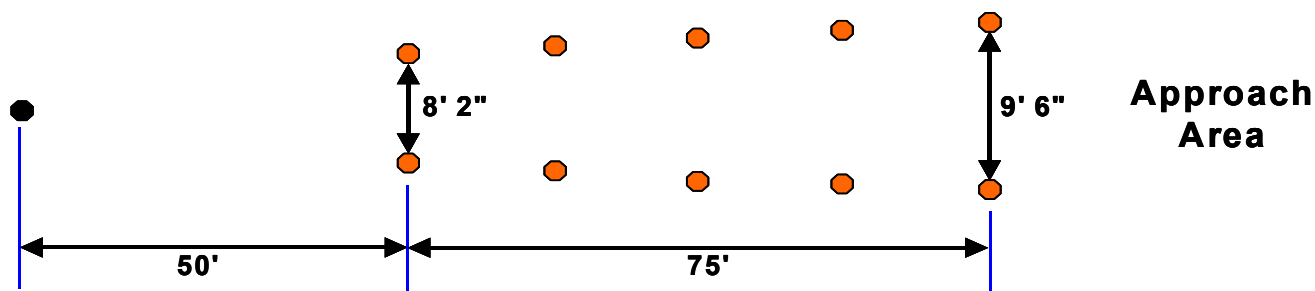
1. **5 points** subtracted each time the apparatus touches a side marker.
2. **5 points** subtracted each time the apparatus stops before reaching the end marker.
3. **10 points** subtracted if apparatus stops 6-12 inches before the end marker or **20 points** subtracted if apparatus stops more >12-18 inches before the end marker.

The student **fails** if the apparatus stops >18 inches from the end marker. Distance is measure from the end marker to the front bumper.

4. The student **fails** if the apparatus touches the end marker.
5. The student **fails** if a speed of 15-20 mph is not maintained during the exercise.
6. The student **fails** if he or she does not maintain control of the apparatus during the exercise.

Site Preparation:

- Markers are set up as shown.
- Unless indicated, marker spacing shall be of equal distance.
- Two rows of side markers form a lane 75-feet long.
- Beginning width of 9 inches wider than the apparatus.
- Lane diminishes to a clearance width of 1 inch.



Mandatory Driving Exercise 4-1-2

Exercise:

Serpentine Exercise

This exercise simulates maneuvering around parked and stopped vehicles and tight corners. You maneuver the apparatus forward and backward in one continuous motion without touching any of the course markers.

Time Frame:

None

Authority:

2009 NFPA 1002: Section A.4.3.3

Materials Needed:

- Fire apparatus
- 8,000 square foot area
- 48-inch pillars (3)
- 100-foot tape measure

Student Directions:

1. Drive the apparatus along the left side of the markers in a straight line.
2. Stop just beyond the last marker.
3. Back the apparatus between the markers by passing to the left of Marker #1, to the right of Marker #2, and to the left of Marker #3.
4. Stop the apparatus.
5. Drive the apparatus forward between the markers by passing to the right of Marker #3, to the left of Marker #2, and to the right of Marker # 1.

Scoring:

100 points possible

80% passing

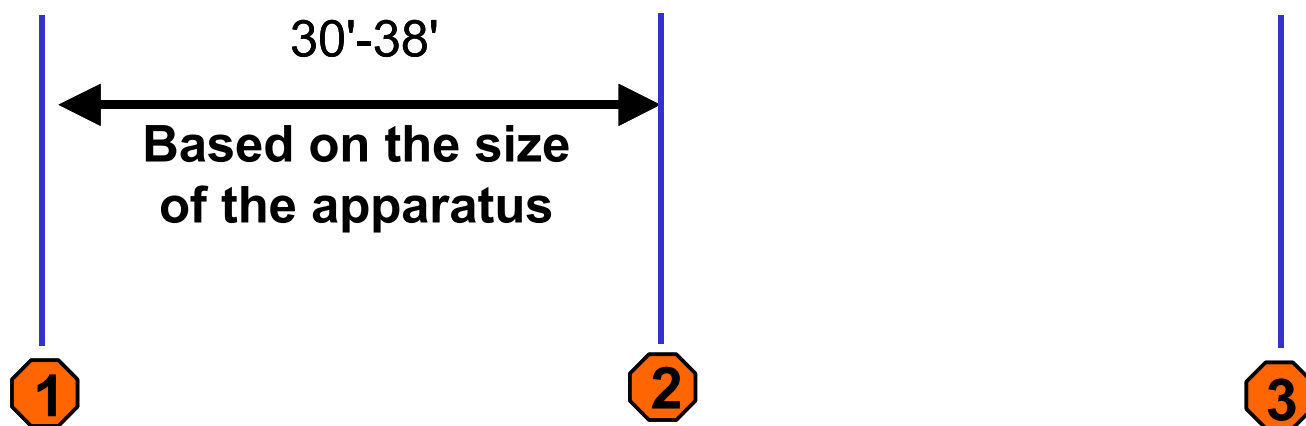
1. **5 points** subtracted for each marker passed on the wrong side.
2. **5 points** subtracted each time the apparatus stops during the exercise.
3. The student **fails** if the apparatus touches a marker.
4. The student **fails** the performance exam if he or she does not maintain control of the apparatus during the exercise.

Exercise:

Serpentine Exercise

Site Preparation:

- Markers are set up as shown.
- Place three markers in a straight line, equal distance apart.
- Ensure adequate space is available on both sides of the markers for the apparatus to move freely.



Mandatory Driving Exercise 4-1-3

Exercise:

Three-Point Turnaround Exercise

This exercise tests your ability to turn the apparatus around within a confined space without striking obstacles.

Time Frame:

None

Authority:

2009 NFPA 1002: Section A.4.3.4

Materials Needed:

- Fire apparatus
- 5,000 square foot area
- 18-inch cones (16)
- 100-foot tape measure

Student Directions:

1. Drive forward through the 12-foot opening in the center of one of the 50-foot legs.
2. Turn the apparatus either direction (left or right).
3. Bring the apparatus to a complete stop without touching a marker or extending beyond the course boundaries.
4. Back the apparatus far enough to accommodate the turn to proceed out without touching a marker or extending beyond the course boundaries.
5. Make the turn.
6. Proceed to the exit point.
7. Bring the apparatus to a complete stop after clearing the exit point.

Scoring:

100 points possible

80% passing

1. **10 points** subtracted if the wheels are turned when the apparatus is stopped.
2. The student **fails** if the apparatus touches a marker.
3. The student **fails** if the apparatus travels outside the exercise boundaries.
4. The student **fails** if he or she exceeds three directional changes as outlined in the diagram.
5. The student **fails** if he or she does not maintain control of

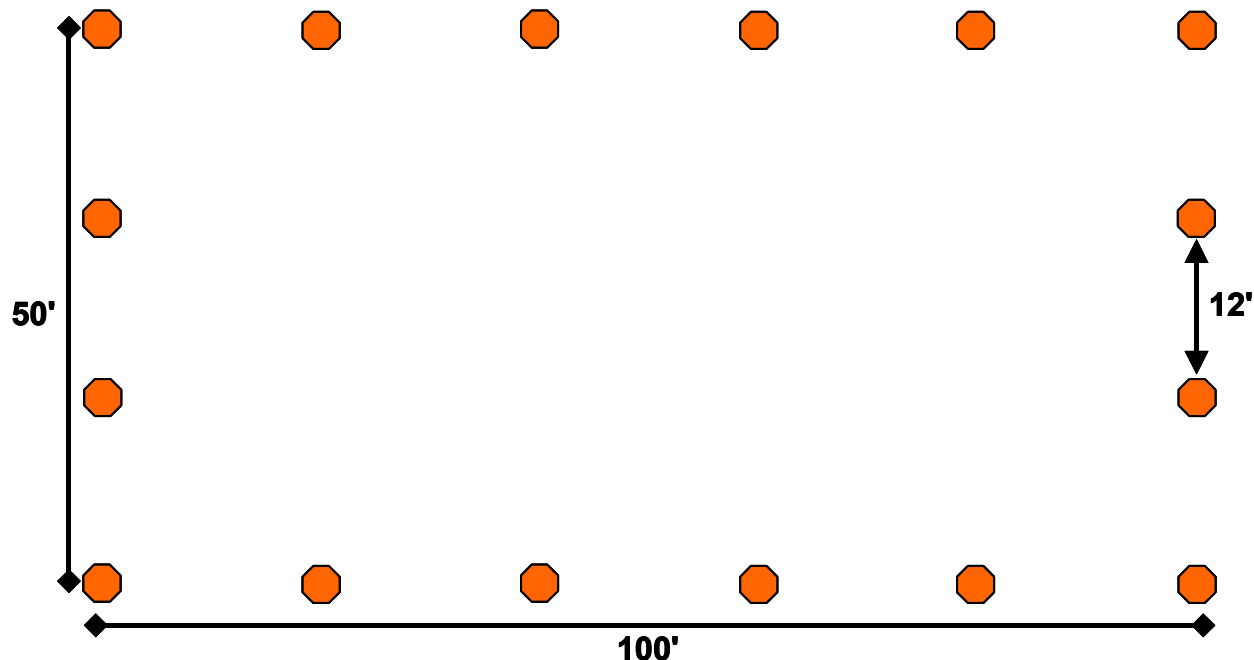
Exercise:

Three-Point Turnaround Exercise

the apparatus during the exercise.

Site Preparation:

- Markers are set up as shown.
- Align markers in straight lines, equal distance apart.
- Size of exercise is 50'x100'.
- Width of approach gate is 12 feet.



Mandatory Driving Exercise 4-1-4

Exercise 4-1-5, the Alley Dock, may be substituted for this exercise.

Exercise:

Station Apparatus Backing Exercise

This exercise tests your ability to move the apparatus backward within a restricted area and into a fire station without striking the walls and to bring the apparatus to a smooth stop close to a rear wall.

Time Frame:

None

Authority:

2009 NFPA 1002: Section A.4.3.2(b)

Materials Needed:

- Fire apparatus
- 5,000 square foot area
- 48-inch pillars (4)
- 18-inch cones (14)
- 100-foot tape measure

Student Directions:

1. Drive down the simulated street in a straight line, past the driveway apron located on your left.
2. Bring the apparatus to a complete stop after passing the driveway apron opening.
3. Back the apparatus into the designated bay.
4. Bring the apparatus to a complete stop after the front bumper clears the first two 48-inch pillars.
5. Drive the apparatus forward, making a right turn.
6. Bring the apparatus to a complete stop after finishing the turn.
7. Back the apparatus into the designated bay.
8. Bring the apparatus to a complete stop after the front bumper clears the first two 48-inch pillars.

Scoring:

100 points possible

80% passing

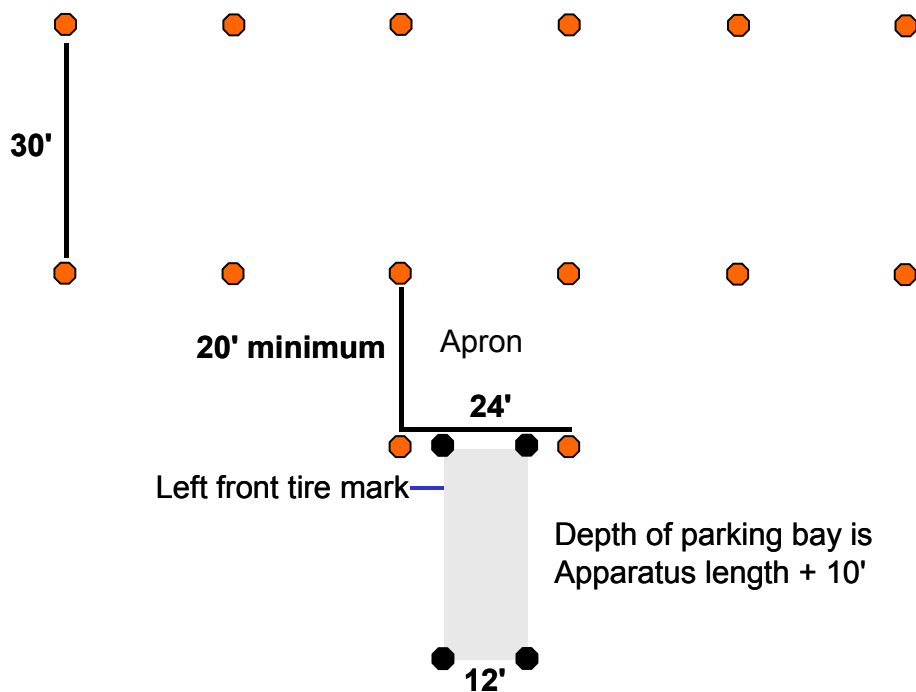
1. **5 points** subtracted each time the apparatus stops within the alley before reaching the end.
2. The student **fails** if the apparatus touches a marker.
3. The student **fails** if he or she does not maintain control of the apparatus during the exercise.

Exercise:

Station Apparatus Backing Exercise

Site Preparation:

- Markers are set up as shown.
- Unless indicated, marker spacing shall be of equal distance.
- The boundary lines for the restricted area should be 30 feet wide, similar to curb-to-curb distance
- Along one side and perpendicular is another simulated area 20' x 24' and again reduced to 12 feet x vehicle length plus 10 feet.
- Each simulated area shall be centered end from end of next largest area.



Mandatory Driving Exercise 4-1-5

Exercise 4-1-4, Station Apparatus Backing, may be substituted for this exercise.

Exercise:

Alley Dock Exercise

This exercise tests your ability to move the apparatus backward within a restricted area and into an alley, dock, or fire station without striking the walls and to bring the apparatus to a smooth stop close to a rear wall.

Time Frame:

None

Authority:

2009 NFPA 1002: Section A.4.3.2(a)

Materials Needed:

- Fire apparatus
- 6,000 square foot area (60x100)
- 48-inch pillars (5)
- 18-inch cones (12)
- 100-foot tape measure

Student Directions:

1. Drive past the alley dock area located on the your left.
2. Bring the apparatus to a complete stop after passing the alley dock area.
3. Back the apparatus into the alley dock area, making a hard left turn.
4. Bring the apparatus to a complete stop within 18 inches of the center marker.
5. Set the parking brake.
6. When instructed, drive forward out of the alley dock area.

Scoring:

100 points possible

80% passing

1. **5 points** subtracted each time the apparatus stops within the alley before reaching the end marker.
2. **10 points** subtracted if apparatus stops 6-12 inches before the end marker or **20 points** subtracted if apparatus stops more >12-18 inches before the end marker. The student **fails** if the apparatus stops >18 inches from the end marker.

Exercise:

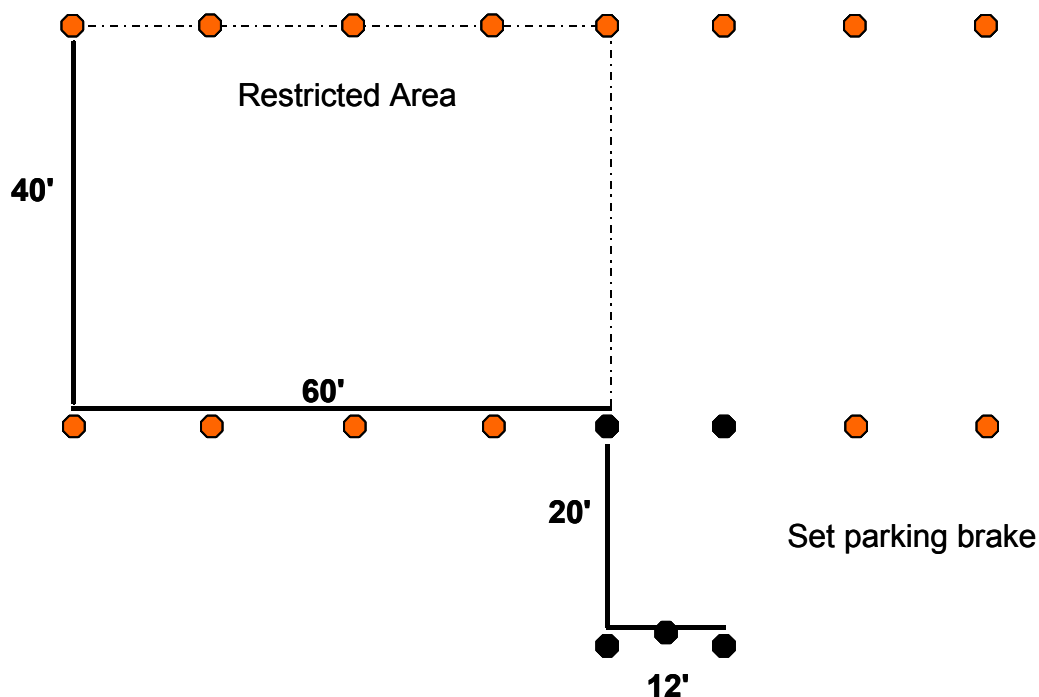
Alley Dock Exercise

Distance is measured from the end marker to the front bumper.

3. The student **fails** if the apparatus touches the end marker.
4. The student **fails** if the apparatus touches a side marker.
5. The student **fails** if he or she breaks the plane denoted by the markers.
6. The student **fails** if he or she does not maintain control of the apparatus during the exercise.

Site Preparation:

- Markers are set up as shown.
- Markers shall be aligned in straight lines.
- Unless indicated, marker spacing shall be of equal distance.
- The boundary lines for the restricted area should be 40-feet wide, similar to curb-to-curb distance.
- Along one side and perpendicular is another simulated area 12' x 20'.
- Smaller simulated area is 60 feet from the end of the opposite approach.





FIRE APPARATUS DRIVER/OPERATOR 1A

Emergency Vehicle Operations

Topic 4-1: Introduction to the Mandatory Driving Exercises



Mandatory Driving Exercises Scoring Sheet

STUDENT: _____ DATE: _____

4-1-1: DIMINISHING CLEARANCE EXERCISE				Penalty points subtracted from 100 possible points.
	Rated Component	Frequency	Value	100
1.	Apparatus touches a side marker		5	
2.	Apparatus stops before reaching the end marker		5	
3.	Apparatus stops 0-6 inches before the end marker	☐ 0-6	0	
	OR Apparatus stops >6-12 inches before the end marker	☐ >6-12	10	
	OR Apparatus stops >12-18 inches before the end marker	☐ >12-18	20	
	OR Apparatus stops >18 inches before the end marker	☐ >18	Failure	
4.	Apparatus touches the end marker	☐ Yes	Failure	
5.	Speed is not maintained (>3 seconds in lane)	☐ Yes	Failure	
6.	Driver/operator fails to maintain control of the apparatus	☐ Yes	Failure	
TOTAL POINTS:				
PASSING SCORE:				80

Scorer's Name: _____

Signature: _____

☐ Pass
PASS/FAIL: ☐ Fail
☐ Retest

4-1-1 NOTES:

4-1-2: SERPENTINE EXERCISE				Penalty points subtracted from 100 possible points.
	Rated Component	Frequency	Value	100
1.	Apparatus passes a marker on the wrong side		5	
2.	Apparatus stops during the exercise		5	
3.	Apparatus touches a marker	☐ Yes	Failure	
4.	Driver/operator fails to maintain control of the apparatus	☐ Yes	Failure	
TOTAL POINTS:				
PASSING SCORE:				80

Scorer's Name: _____

Signature: _____

☐ Pass
PASS/FAIL: ☐ Fail
☐ Retest

4-1-2 NOTES:



FIRE APPARATUS DRIVER/OPERATOR 1A

Emergency Vehicle Operations

Topic 4-1: Introduction to the Mandatory Driving Exercises



STUDENT: _____ DATE: _____

4-1-3: THREE-POINT TURNAROUND EXERCISE			Penalty points subtracted from 100 possible points.	
	Rated Component	Frequency	Value	100
1.	Wheels turned while the apparatus is stopped		10	
2.	Apparatus touches a marker	☐ Yes	Failure	
3.	Apparatus travels outside the exercise boundaries	☐ Yes	Failure	
4.	Driver/operator exceeds three directional changes	☐ Yes	Failure	
5.	Driver/operator fails to maintain control of the apparatus	☐ Yes	Failure	
			TOTAL POINTS:	
			PASSING SCORE:	80

Scorer's Name: _____

☐ Pass

Signature: _____

PASS/FAIL:

☐ Fail

☐ Retest

4-1-3 NOTES:

4-1-4: STATION APPARATUS BACKING EXERCISE			Penalty points subtracted from 100 possible points.	
	Rated Component	Frequency	Value	100
1.	Apparatus stops within the alley before reaching the end		5	
2.	Apparatus touches a marker	☐ Yes	Failure	
3.	Driver/operator fails to maintain control of the apparatus	☐ Yes	Failure	
			TOTAL POINTS:	
			PASSING SCORE:	80

Scorer's Name: _____

☐ Pass

Signature: _____

PASS/FAIL:

☐ Fail

☐ Retest

4-1-4 NOTES:



FIRE APPARATUS DRIVER/OPERATOR 1A

Emergency Vehicle Operations

Topic 4-1: Introduction to the Mandatory Driving Exercises



STUDENT: _____ DATE: _____

4-1-5: ALLEY DOCK EXERCISE		Penalty points subtracted from 100 possible points.		
	Rated Component	Frequency	Value	100
1.	Apparatus stops within the alley before reaching the end marker		5	
2.	Apparatus stops 0-6 inches before the end marker	☐ 0-6	0	
	OR Apparatus stops >6-12 inches before the end marker	☐ >6-12	10	
	OR Apparatus stops >12-18 inches before the end marker	☐ >12-18	20	
	OR Apparatus stops >18 inches before the end marker	☐ >18	Failure	
3.	Apparatus touches the end marker	☐ Yes	Failure	
4.	Apparatus touches a side marker	☐ Yes	Failure	
5.	Apparatus breaks the plane denoted by the markers	☐ Yes	Failure	
6.	Driver/operator fails to maintain control of the apparatus	☐ Yes	Failure	
TOTAL POINTS:				
PASSING SCORE:			80	

Scorer's Name: _____

Signature: _____

☐ Pass
PASS/FAIL: ☐ Fail
☐ Retest

4-1-5 NOTES:
