

Course Title: High Speed Emergency Response Simulation Training

COURSE SYNOPSIS

The operation of a motor vehicle in a law enforcement setting is a dynamic and challenging task. The ability to drive in emergency mode, communicate with dispatch, and remain aware of the actions of other drivers presents complexities not experienced in normal driving especially at higher speeds. The HSERST Course (24 hours) is designed for advanced in-service training. This course is designed to help drivers understand a vehicle's limits as well as their personal limits. A driver's awareness of the effects of physiological and psychological stressors on his or her driving is critical. It is also important that the first responder understands how the public views them as drivers. This course will help them refine the skills required to operate a motor vehicle safely at higher speeds.

PERFORMANCE OBJECTIVES

This system is designed and intended for low speed training use only to simulate high speed driving. Typical recommended training speeds are 10 mph to 30 mph, but in no case should ever need to exceed 40 mph.

Demonstrate knowledge and understanding of safe vehicle operation practices through classroom lecture and discussion by a current vehicle operation Master Instructor.

Perform the following exercises at a vehicle operations training facility to the satisfaction of the vehicle operations Master instructor: Circle Exercise, Straight Line Braking Exercise, Trail Braking, Skid Pad Exercise, Brake & Avoid Exercise, Figure 8 Exercise, Increasing Radius Exercise, Decreasing Radius Exercise, Evasive Maneuver Exercise, and Time Attack Challenge Exercise.

CRITICAL TASKS

Review vehicle operations glossary of terms for vehicle recovery. Review, demonstrate, and have drivers perform the required practical exercises at a vehicle operations training facility.

TESTING

Practical exercises only. (See below)

METHOD OR METHODS OF INSTRUCTION

Lecture, discussion and practical exercises led by a current vehicle operations instructor/EasyDrift Master Instructor.

MATERIAL AND EQUIPMENT REQUIREMENTS

- Front-wheel drive vehicle (preferred) especially on smaller training pads.
- Vehicle operations training facility (including an adequate number of cones), Dry line Chalker.
- Evaluation Sheet
- Easydrift Driver Training System or compatible.

Note: The Easydrift Driver Training equipment can be used with 12-foot lanes or less. It doesn't change the dynamics of the vehicle therefore the actions of the driver are true to the car's reactions.

BIBLIOGRAPHY AND/OR REFERENCES

Easydrift Training Manual or Compatible

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Classroom: (4 hours Utilizing the Easydrift Training Manual or Compatible)

1. Discuss road hazards and ways to prevent crashes
2. Describe methods for maintaining awareness and factors and conditions that impact observations.
3. Discuss types of traffic crashes and techniques to avoid them.
4. Discuss the two-second and the four-second rule for safely following other vehicles.
5. Explain how physical force affects the ability to control and safely maneuver a vehicle with emphasis on the following:
 - a. Increasing, decreasing, and constant radius
 - b. Braking to a safe speed
 1. Straight line Braking
 2. Trail Braking
 - c. Apexing techniques
 1. Early (the big NO)
 2. Late (Preferred on public roadways)
 - d. Proper steering
 - e. Wheel tracking
6. Discuss proper seating and hand positions for steering the vehicle. Very important because we replicate high speed situations.
7. Discuss shuffle steering and the caster effect.
8. Explain the principles of proper braking.
9. Describe incipient skid and how to maintain control of the vehicle when it occurs.
10. Describe incipient spin and how to maintain control of the vehicle when it occurs.
11. Discuss deceleration, braking, and steering techniques to recover a vehicle that is sliding.

12. Describe the basic steps for positioning the vehicle, steering, and maintaining control through a turn.
13. Discuss pursuit driving.
14. Discuss the psychological stress and physiological effects on the driver in emergency mode.

Driving Range:

Circle Exercise:

1. Review the Circle exercise
2. Demonstrate the Circle Exercise

3. Have student demonstrate the Circle Exercise

Straight Line Braking Exercise:

1. Review the Straight-Line Braking exercise
2. Demonstrate the Straight-Line Braking
3. Have student demonstrate the Straight-Line Braking exercise.

Trail Braking Exercise:

1. Review the Trail Braking Exercise
2. Demonstrate the Trail Braking Exercise
3. Have student demonstrate the Trail Braking exercise .

Skid Pad Exercise:

1. Review the Skid Pad exercise.
2. Demonstrate the Skid Pad exercise.
3. Have student demonstrate the Skid Pad exercise.

Brake & Avoid Exercise:

1. Review the Brake & Avoid exercise
2. Demonstrate the Brake & Avoid exercise
3. Have student demonstrate the Brake & Avoid exercise.

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Figure 8 Exercise

1. Review the Figure 8 exercise
2. Demonstrate the Figure 8 exercise
3. Have student demonstrate the Figure 8 exercise

Increasing Radius Exercise

1. Review the Increasing Radius Exercise
2. Demonstrate the Increasing Radius Exercise
3. Have student demonstrate the Increasing Radius Exercise

Decreasing Radius Exercise

1. Review the Increasing Decreasing Radius Exercise
2. Demonstrate the Decreasing Radius Exercise
3. Have student demonstrate the Decreasing Radius Exercise

Evasive Maneuver Exercise

1. Review the Evasive Maneuver Exercise
2. Demonstrate the Evasive Maneuver Exercise
3. Have student demonstrate the Evasive Maneuver Exercise

Time Attack Challenge Exercise / Autocross / Pursuit Course

1. Review the Time Attack Challenge Exercise
2. Demonstrate the Time Attack Challenge Exercise
3. Have student demonstrate the Time Attack Challenge Exercise

High Speed Emergency Response Simulation Training

Student: _____

Date: _____

-Performance requirements: Student shall successfully demonstrate the following exercises:

- Circle Exercise
- Straight Line Braking Exercise
- Trail Braking,
- Skid Pad Exercise
- Brake & Avoid Exercise
- Figure 8 Exercise
- Increasing Radius Exercise
- Decreasing Radius Exercise
- Evasive Maneuver Exercise
- Time Attack Challenge Exercise

Exercise	Completed (If No, explain)	Instructor's Name (Print)	Instructor's Signature	Comments
Circle Exercise				
Straight Line Braking				
Trail Braking				
Skid Pad Exercise				
Brake & Avoid Exercise				
Figure 8 Exercise				
Increasing Radius Exercise				
Decreasing Radius Exercise				
Evasive Maneuver Exercise				
Time Attack Challenge Exercise				

Instructor's Name: _____

Instructor's Signature: _____

Student's Signature: _____



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