

***Traffic Safety Education
Life Long Learning Process***

Classroom and In-car Content

Segment I

Classroom and In-car Content

Segment II

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National Driver Development Program Curriculum Standards

Driving is a complex task and takes time to learn. Motor vehicle crashes are the leading cause of death for teenagers. Novice drivers are inexperienced and immature which are two factors contributing to teenage drivers being over-represented in traffic crashes. There is no simple solution to reducing the crash involvement of the novice and experienced driver. In many cases crashes are not caused by lack of knowledge of basic traffic laws, or the lack of basic vehicle handling skills. The issue is more complex. The problem appears to be more a function of the developmental characteristics of youth, taking unnecessary risks, lack of respect for mortality, and the influence of peer pressure and environment. Novice drivers have limited experience, questionable driver attitude, misrepresent risk acceptance, and display a lack of judgment in critical situations. The consequence is the increased probability of unsafe driving behaviors that can result in a traffic crash with injuries or death to the driver or the passenger in the motor vehicle.

In 1993, NHTSA convened a panel of national experts in traffic safety to identify research for training programs designed to reduce young driver risk taking and heighten the decision making skills. In 1994, NHTSA was requested by Congress to review novice driver education and recommend procedures for improving the training of drivers. The report documented NHTSA efforts in the novice driver education program. It discussed why novice driver education may not be as effective as it promises. The report documents the arguments for an improved program in driver education as an important part of the graduated licensing system. The report identifies four areas that may contribute to a successful restructuring of novice driver education as an integral part of the licensing system.

The role of the driver educator is not limited to pre-licensing efforts in the public and private sector. This role will need to be expanded to provide services for lifetime learning components. ADTSEA will play a role in helping to identify the specific needs to accomplish the task of preparing a novice driver within the recommended graduated licensing guidelines.

Assumptions

- There is a need to eliminate the 30 classroom hours and six in-car hours minimum standard for driver education.
- The need for concurrent learning experiences outweighs the difficulties in scheduling for concurrent activities. A higher set of standards needs to be encouraged and developed.
- A sequence of activities needs to be created that allows an integrated approach of information delivery and acquisition to skill development which leads to effective habit formation.
- Instructor training must be designed to make use of new materials. Requirements, incentives and motivation methods must be developed to encourage teacher training.
- Driver education is the beginning effort and should encourage a need for on-going education.

Classroom Performances Concurrent Phase One

Goals

A novice driver is a person who is able to:

- Demonstrate a working knowledge of the rules and procedures of operating an automobile;
- Use visual search skills to obtain correct information and make reduced-risk decisions about driving maneuvers;
- Demonstrate ability to manage space around vehicle by adjusting position and/or speed to avoid conflicts and reduce risk;
- Interact with other users within the Highway Transportation System in a positive manner;
- Demonstrate balanced vehicle movement through steering, braking, and accelerating in a precise and timely manner;
- Confirm the need to protect oneself and others through using occupant protection systems;
- Display knowledge of responsible actions in regard to physical and psychological conditions affecting driver performance; and
- Extend supervised practice with licensed parent or guardian to develop precision in the use of skills, processes, and responsibilities.

Driver and Traffic Safety Education: Classroom Segment I

1.0 State Traffic Laws. The student is expected to develop an understanding and application of state laws related to :

- 1.1. proceeding, overtaking, and passing.
- 1.2. special stops and restricted speeds.
- 1.3. traffic signs, signals, and markings.
- 1.4. pedestrian rights and duties.
- 1.5. safety and insurance responsibility.
- 1.6. intersections, turning, and signaling.
- 1.7. speed regulations, alcohol, other drugs, and vehicle equipment.
- 1.8. licensing, registration, and inspection.
- 1.9. driver handbook references.
- 1.10. licensing/permit tests.

2.0 Vehicle Familiarization. The student is expected to:

- 2.1. locate and recognize the meaning of alert and warning symbols.
- 2.2. locate and operate vehicle controls.
- 2.3. locate and operate optional accessories and features.
- 2.4. demonstrate routine maintenance and visual checks.

3.0 Driver Readiness. The student is expected to:

- 3.1. maintain mental alertness.
- 3.2. manage emotions and actions.
- 3.3. demonstrate appropriate seating position.
- 3.4. protect themselves and others through using occupant protection.

4.0 Vehicle Control Introduction. The student is expected to:

- 4.1. understand and demonstrate vision and perception requirements.
- 4.2. demonstrate effective use of a targeted line of sight and an intended path of travel.
- 4.3. demonstrate techniques to reference vehicle to the intended path of travel
- 4.4. maintain an open line of sight
- 4.5. demonstrate appropriate searching skills by speed and position choices
- 4.7. explain how the safety belt maintains a seating position
- 4.8. explain and demonstrate steering wheel control through
 - 4.8.a. using appropriate hand position and
 - 4.8.b. using appropriate steering techniques by
 - 4.8.c. using hand to hand steering
 - during precision maneuvers and
 - through curvatures and
 - during intersection turning and
 - during front wheel traction loss control.
 - 4.8.d. using limited evasive steering
 - during a low speed lane change or
 - during high speed lane change or
 - while using ABS braking.
 - 4.8.e. using hand over hand steer
 - when sightline is severely limited at intersections or
 - when perpendicular parking or
 - during rear traction loss control.
 - 4.8.f. using one-hand steer
 - when operating vehicle control devices or

- when using backing techniques.

4.9. understand and operate all vehicle control devices.

5.0 Establishing vehicle position. The student is expected to:

- 5.1. understand and draw the driver sight limitations when seated in a vehicle.
- 5.2. explain and draw the view provided by mirrors using
 - 5.2.a. traditional mirror settings.
 - 5.2.b. blindzone/spot and glare elimination (BGE) mirror settings
- 5.3. explain and demonstrate standard and personal visual referencing of vehicle to roadway.
- 5.4. explain and demonstrate vision placement and vehicle alignment.
- 5.5. understand and demonstrate appropriate positions within a lane.
- 5.6. establish an orderly visual search process.
- 5.7. understand and establish a targeted line of sight to the end of a path of travel.
- 5.8. understand and reference vehicle position to an open path of travel.
- 5.9. recognize and maintain an open line of sight
- 5.10. review state traffic law (Current Edition) concerning
 - 5.10.a. yielding right of way and
 - 5.10.b. intersection approach, entry, and exit.

(E) Knowledge and skills. Module 2: Introducing Traffic Entry Skills.

6.0 Basic vehicle maneuvering tasks. The student is expected to:

- 6.1. develop and practice procedural steps for vehicle maneuvers.
- 6.2. process information while using the vehicle controls.
- 6.3. understand and use vision and perception requirements.
- 6.4. use targeting and visual lead skills.
- 6.5. develop a search process.
- 6.6. understand space management system basics by
 - 6.7.a. Searching for
 - changes to path of travel or
 - changes to the line of sight or
 - changes in road surface and condition.
 - 6.7.b. Evaluating situation(s) for
 - alternative paths of travel and/or
 - appropriate lane position and/or
 - appropriate speed and/or
 - appropriate communication.
 - 6.7.c. Executing skills for
 - appropriate speed changes and/or
 - appropriate lane position changes and/or
 - appropriate communication.
- 6.8. understand and use vehicle to roadway visual referencing.
- 6.9. understand and use standard and personal points of vehicle reference.
- 6.10. understand visual limitations and make appropriate visual adjustments.
- 6.11. explain and demonstrate vehicle blindzones/spots and large truck no zones.
- 6.12. review state traffic law (Current Edition) concerning
 - 6.13.a. rules regarding yielding right of way.
 - 6.13.b. signal use rules.
 - 6.13.c. lane position rules.
 - 6.13.d. intersection rules.
 - 6.13.e. signs, signals, and markings rules.

6.13.f. backing rules.

7.0 Roadway characteristics. The student is expected to:

- 7.1. analyze the approach, entry , and exit of an intersection.
- 7.2. analyze the surface condition of the roadway.
- 7.3. analyze the slope and grade of the roadway.
- 7.4. analyze the traction or adhesion of the road surface.
- 7.5. recognize the roadway, shoulder, and off-road areas of the highway.
- 7.6. understand and utilize the lane controls.

8.0 Roadway signs and signals. The student is expected to:

- 8.1. understand and explain the sign shapes.
- 8.2. understand and explain the sign and signal colors.
- 8.3. understand and explain the sign and signal meanings.
- 8.4. understand and explain the sign and signal locations.
- 8.5. understand and explain the sign and signal controls.

9.0 Roadway markings. The student is expected to:

- 9.1. understand and explain the roadway marking colors.
- 9.2. understand and explain the roadway marking meanings.
- 9.3. understand and explain the roadway marking locations.
- 9.4. understand and explain the roadway marking controls.

10.0 Basic vehicle control tasks. The student is expected to:

- 10.1. understand and practice the intersection maneuvers.
- 10.2. understand and practice the lane change maneuvers.
- 10.3. understand and practice backing in straight line.
- 10.4. understand and practice backing around a corner.
- 10.5. understand and practice the basic turnabouts by
 - 10.5.a. driving around the block or
 - 10.5.b. pulling into a parking lot or
 - 10.5.c. performing 2-point to left/right or
 - 10.5.d. performing a U-turn in a protected intersection or
 - 10.5.e. performing 3-point in a low risk roadway environment.

(G) Knowledge and skills. Module 4: Introducing Space Management Skills.

11.0 Space management system development. The student is expected to:

- 11.1. understand how to control the space to the front.
- 11.2. understand and demonstrate appropriate mirror use.
- 11.3. understand and maintain separation to sides and rear of vehicle.
- 11.4. explain how to communicate the vehicle presence and driver intentions.
- 11.5. explain and use effective intersection management
- 11.6. explain and use the commentary responses for speed and position adjustments
- 11.7. explain and demonstrate vehicle blindzones/spots and large truck no zones
- 11.8. review state traffic law (Current Edition) concerning

12.0 Turnabouts. The student is expected to:

- 12.1. understand and demonstrate space management applications.
- 12.2. understand and demonstrate communication skills.
- 12.3. understand and demonstrate procedures.
- 12.4. understand and demonstrate position to curb.
- 12.5. understand and demonstrate speed control.
- 12.6. understand and demonstrate steering control.

13.0 Speed management. The student is expected to:

- 13.1. explain and use visibility concepts.
- 13.2. explain and use traffic controls appropriately.
- 13.3. recognize and adjust to road conditions.
- 13.4. explain and understand the role of vehicle condition.
- 13.5. recognize and adjust space to front/rear.
- 13.6. recognize and adjust to other roadway users.
- 13.7. recognize and adjust to vehicle dynamics.
- 13.8. recognize and adjust speed differentials of other vehicles.

14.0 Lane changes . The student is expected to:

- 14.1. understand and demonstrate space management applications.
- 14.2. understand and demonstrate communication skills.
- 14.3. understand and demonstrate procedures.
- 14.4. recognize and adjust lane position
- 14.5. understand and demonstrate speed control.
- 14.6. understand and demonstrate steering control.
- 14.7. explain and view vehicle blindzones/spots and large truck no zones

15.0 Perpendicular, angle and parallel parking. The student is expected to:

- 15.1. explain and perform entry skills including
 - 15.1.a. explaining and using the space management applications.
 - 15.1.b. explaining and using appropriate communications.
 - 15.1.c. explaining and using appropriate procedures.
 - 15.1.d. explaining and using appropriate positioning.
 - 15.1.e. explaining and using appropriate speed control
 - 15.1.f. explaining and using appropriate steering control
- 15.2. explain and perform exit skills including
 - 15.2.a. explaining and using the space management applications.
 - 15.2.b. explaining and using appropriate communications.
 - 15.2.c. explaining and using appropriate procedures.
 - 15.2.d. explaining and using appropriate positioning.
 - 15.2.e. explaining and using appropriate speed control
 - 15.2.f. explaining and using appropriate steering control
- 15.3. review state traffic law (Current Edition) concerning
 - 15.3.a. turnabout rules
 - 15.3.b. speed rules
 - 15.3.c. lane change rules
 - 15.3.d. parking/leaving vehicle rules

(H) Knowledge and skills. Module 5: Developing Space Management Skills.

16.0 Traffic flow situations. The student is expected to:

- 16.1. recognize and respond to non-motorized highway users.
- 16.2. recognize problems and respond to following and being followed.
- 16.3. recognize problems and respond to entering and exiting curves.
- 16.4. recognize problems and respond to traffic flow to each side of vehicle.
- 16.5. recognize problems and respond to multiple use and reversible lanes.
- 16.6. recognize problems and respond to oncoming traffic gap selection
- 16.7. recognize problems and respond to crossing traffic gap selection
- 16.8. recognize problems and respond to multiple lane passing options.
- 16.9. recognize problems and respond to vehicle blindzones/spots and large truck no zones.

17.0 Space management situations. The student is expected to:

- 17.1. control the space around the vehicle.
- 17.2. use appropriate mirror checks.
- 17.3. recognize vehicle blindzones/spots and large truck no zones.
- 17.4. maintain separation to sides and rear of the vehicle.
- 17.5. communicate vehicle presence and driver intentions
- 17.6. recognize problems and respond to multiple use and reversible lanes.
- 17.7. use effective space management of curve approach and exit
- 17.8. explain and use the commentary responses for speed and position adjustments
- 17.9. review state traffic law (Current Edition) concerning
 - 17.9.a. right of way rules
 - 17.9.b. lane position in curve rules
 - 17.9.c. passing rules

18.0 Intersection entry. The student is expected to:

- 18.1. understand and use space management applications
- 18.2. understand and use communication skills.
- 18.3. understand and use appropriate lane positions.
- 18.4. understand and use appropriate speed control.
- 18.5. understand and use steering control.

19.0 Curve entry/exit. The student is expected to:

- 19.1. understand and use space management applications.
- 19.2. understand and use communication skills.
- 19.3. understand and use procedures.
- 19.4. understand and use appropriate lane positions.
- 19.5. understand and use appropriate speed control.
- 19.6. understand and use steering control.

20.0 Passing on multiple lanes. The student is expected to:

- 20.1. understand and use space management applications.
- 20.2. understand and use communication skills.
- 20.3. understand and use procedures.
- 20.4. understand and use appropriate lane positions.
- 20.5. understand and use appropriate speed control.
- 20.6. understand and use steering control.

- 20.7. understand and use stopping distance.
- 20.8. understand and use abort considerations.

(I) Knowledge and skills. Module 6: Dealing with Complex Environments

21.0 Traffic flow situations up to maximum speed limit. The student is expected to:

- 21.1. recognize and respond to non-motorized highway users.
- 21.2. recognize problems and respond to following and being followed.
- 21.3. recognize problems and respond to entering and exiting curves.
- 21.4. recognize problems and respond to traffic flow to each side of vehicle.
- 21.5. recognize problems and respond to multiple use and reversible lanes.
- 21.6. recognize problems and respond to oncoming traffic gap selection
- 21.7. recognize problems and respond to crossing traffic gap selection
- 21.8. recognize problems and respond to multiple lane passing options.
- 21.9. recognize problems and respond to vehicle blindzones/spots and large truck no zones.
- 21.10. recognize and share the roadway with other motorized highway users.
- 21.11. recognize and respond to appropriate and inappropriate driver behavior.
- 21.12. recognize and respond to other vehicle size and activity.

22.0 Space management situations to maximum speed limit. The student is expected to:

- 22.1. control the space around the vehicle.
- 22.2. use appropriate mirror checks.
- 22.3. recognize vehicle blindzones/spots and large truck no zones.
- 22.4. maintain separation to sides and rear of the vehicle.
- 22.5. communicate vehicle presence and driver intentions
- 22.6. recognize problems and respond to multiple use and reversible lanes.
- 22.7. use effective space management of curve approach and exit
- 22.8. explain and use the commentary responses for speed and position adjustments
- 22.9. review state traffic law (Current Edition) concerning
 - 22.9.a. merging rules
 - 22.9.b. passing rules
 - 22.9.c. use of specialty devices
 - 22.9.d. flashers
 - 22.9.e. lights
 - 22.9.f. towing
 - 22.9.g. limited access roadway restrictions

23.0 Merging/driving on/exiting limited access highway. The student is expected to:

- 23.1. explain and use appropriate communication skills.
- 23.2. explain and use space management techniques.
- 23.3. explain and use gap selection techniques.
- 23.4. recognize and adjust to vehicle blindzones/spots and large truck no zones
- 23.5. recognize and respond to closure rates of other vehicles.
- 23.6. understand and use adequate speed control adjustments.
- 23.7. understand and use adequate lane position adjustments.

24.0 Passing. The student is expected to:

- 24.1. understand and use space management applications.
- 24.2. understand and use communication skills.
- 24.3. understand and use procedures.
- 24.4. understand and use appropriate lane positions.

- 24.5. understand and use appropriate speed control.
- 24.6. understand and use steering control.
- 24.7. understand and use stopping distance.
- 24.8. understand and use abort considerations.

(J) Knowledge and skills. Module 7: Affecting Driver Performance.

25.0 Driver Fitness. The student is expected to:

- 25.1. understand and maintain attention to task by avoiding
 - 25.1.a. outside vehicle distractions
 - limitations to vehicle path of travel
 - signs, signals, and markings
 - other users
 - 25.1.b. inside vehicle distractions
 - passengers.
 - electronics including cell phone.
 - dashboards controls.
- 25.2. understand and explain vision needs when driving.
- 25.3. understand and explain temporary impairments.
- 25.4. understand and explain long-term disabilities.
- 25.5. understand and explain the role of fatigue and sleep deprivation.
- 25.6. understand and explain the role of driver aggression and response

26.0 Chemical use/abuse information. The student is expected to:

- 26.1. understand and explain the risk factors
- 26.2. understand and explain the “Just say no” message
- 26.3. understand and explain the alcohol and drug induced behaviors and effect on driver performance
- 26.4. understand and explain the advertisement/ peer pressure to use
- 26.5. understand and explain the chemical use/abuse laws
 - 26.5.a. laws concerning alcohol and drug abuse
 - 26.5.b. penalties associated with alcohol and drug abuse
- 26.6. understand and explain taking personal responsibility for chemical use/abuse
 - 26.6.a. refusal skills
 - 26.6.b. peer intervention skills
 - 26.6.c. community resources

(K) Knowledge and skills. Module Eight: Adverse Conditions.

27.0 Adverse conditions preparation. The student is expected to:

- 27.1. explain and respond to changing weather conditions
 - 27.1.a. What can go wrong
 - 27.1.b. Prevention techniques
 - 27.1.c. Problem recognition
- 27.2. explain and respond to changing visibility conditions
 - 27.2.a. What can go wrong
 - 27.2.b. Prevention techniques
 - 27.2.c. Problem recognition
- 27.3. explain and respond to changing traction conditions
 - 27.3.a. What can go wrong
 - 27.3.b. Prevention techniques
 - 27.3.c. Problem recognition

28.0 Occupant protection. The student is expected to:

- 28.1. understand and use occupant restraint concepts.
- 28.2. understand and explain occupant use and misuse.
- 28.3. explain and demonstrate techniques for protecting children .
- 28.4. explain how restraints aid vehicle control.

29.0 Traffic flow situations under limited conditions of visibility/traction. The student is expected to:

- 29.1. recognize and respond to non-motorized highway users.
- 29.2. recognize problems and respond to following and being followed.
- 29.3. recognize problems and respond to entering and exiting curves.
- 29.4. recognize problems and respond to traffic flow to each side of vehicle.
- 29.5. recognize problems and respond to multiple use and reversible lanes.
- 29.6. recognize problems and respond to oncoming traffic gap selection
- 29.7. recognize problems and respond to crossing traffic gap selection
- 29.8. recognize problems and respond to multiple lane passing options.
- 29.9. recognize problems and respond to vehicle blindzones/spots and large truck no zones.
- 29.10. recognize and share the roadway with other motorized highway users.
- 29.11. recognize and respond to appropriate and inappropriate driver behavior.
- 29.12. recognize and respond to other vehicle size and activity.
- 29.13. recognize and respond to multiple lane passing .

30.0 Space management assessment. The student is expected to:

- 30.1. relate how to control of space around vehicle.
- 30.2. explain appropriate mirror use.
- 30.3. relate how to maintain separation to sides and rear.
- 30.4. communicate vehicle presence and driver intentions.
- 30.5. explain effective management of limited visibility/traction
- 30.6. use commentary responses

(L) Knowledge and skills. Module Nine: Vehicle Functions and Malfunctions

31.0 Vehicle functions/malfunctions. The student is expected to:

- 31.1. relate the meaning of warning and alert symbols
- 31.2. explain the function of steering and suspension systems.
- 31.3. explain the function of tires and traction control.
- 31.4. explain the function of braking systems.
- 31.5. explain the function of Intelligent Stability and Handling Systems.
- 31.6. explain the function of fuel system electronics.
- 31.7. explain the function of ignition electronics.
- 31.8. explain the function of lights and signals.

Knowledge and Skills beyond the scope of a 30-hour classroom experience.

(M) Knowledge and skills. Module Ten: Supplemental Materials.

32.0 Trip Planning. The student is expected to:

- 30.1. Map reading
- 30.2. "Destination Driving" exercise
- 30.3. Driving skill maneuvers included

30.4. Planning a driving route

33.0 Adverse conditions preparation. The student is expected to:

27.4. Changing weather conditions

- ✓ What can go wrong
- ✓ Problem recognition
- ✓ Vehicle control

27.5. Changing visibility conditions

- ✓ What can go wrong
- ✓ Prevention techniques
- ✓ Problem recognition
- ✓ Vehicle control

27.6. Changing traction conditions

- ✓ What can go wrong
- ✓ Prevention techniques
- ✓ Problem recognition

27.7. Vehicle control

34.0 Operator and System Responsibilities. The student is expected to:

34.1.Licensing laws

34.1.Vehicle

34.1.Operator

34.1.Crash scene

34.1.Responsibilities

34.1.Reporting

34.1.Insurance

- ✓Types
- ✓Needs

Driver and Traffic Safety Education: In-car Skills

Basic Skills and Associated Behavior.

1.1 Vehicle Operating Space. The student is expected to:

- . Recognize the visual limitation to the front of the vehicle.
- . Recognize the visual limitation to the rear of the vehicle.
- . Recognize the visual limitation the right side of the vehicle.
- . Recognize the visual limitation to the left side of the vehicle.
- . Measure the length and width of the vehicle.
- . Draw and measure the size of the vehicle tire patches.
- . Draw and demonstrate the limited visual view in the rear view mirror.
- . Draw and demonstrate the blind-zone and glare elimination (BGE) settings for the side

- view mirrors.
- 1.2 Getting Ready to Drive.** The student is expected to:
- . Approach the vehicle with awareness.
 - . Check outside and inside of vehicle before opening the door.
 - . Lock doors.
 - . Adjust head restraints, seat position, mirrors, safety restraints, steering wheel position.
 - . Check all occupants for safety belt use.
 - . Be able to demonstrate effective meaning and usage of all gauges.
- 1.3 Starting the Vehicle.** The student is expected to:
- . Place or check that parking brake in set position.
 - . Select proper gear for starting.
 - . Secure foot brake pedal.
 - . Recognize alert lights for safety accessories.
- 1.4 Starting the Vehicle (cont).** The student is expected to:
- . Demonstrate proper use of ignition starting device.
 - . Demonstrate ability to select and use appropriate accessories.
 - . Give an example of a warning light for engine or system accessories.
 - . Make appropriate gear selection for movement.
 - . Puts headlights on - day and night.
 - . Prepare to move the vehicle.
- 1.5 Placing Vehicle in Motion.** The student is expected to:
- . Visually identify open space to enter before moving foot from brake to gas.
 - . Communicates to other users.
 - . Places the vehicle into motion smoothly.
 - . Recognizes that too much acceleration affects vehicle body pitch toward the rear.
- 1.6 Stopping Vehicle in Motion.** The student is expected to:
- . Search effectively ahead of the vehicle to determine braking needs.
 - . Use controlled braking efficiently with heel of foot on floorboard.
 - . Check rear zone/space prior to braking.
 - . Apply a firm squeezing braking force at the beginning of the braking process.
 - . Bring the vehicle to a smooth stop.
 - . Recognizes that too much braking action affects vehicle body pitch toward the front.
 - . Ease pressure off brake during last two seconds of braking to ease pitch of vehicle.
 - . Check the rear zone/space before, during and after braking actions.
 - . Demonstrate effective use of maximum ABS braking.
- 1.7 Steering.** The student is expected to:
- . Turn head and visually target in the direction of intended path of travel prior to turning.
 - . Use a target, sightline, and path of travel to determine steering entry and steering return.
 - . Use a balanced hand position on the wheel.
 - . Recognizes that too much steering affects vehicle body roll towards the opposite side of vehicle.
 - . Use the Hand-Over-Hand or Hand-to-Hand (Turning), Hand-To-Hand (Curvatures), One Hand (Reverse), or Evasive Action (Avoidance) methods effectively.
 - . Visually check the rear view mirror, side view mirrors and mirror blind-zone areas.
- 1.8 Securing the Vehicle.** The student is expected to:
- . Stop the vehicle in a safe and legal position.
 - . Set the parking brake as required by state statute and owner's manual.
 - . Shift into appropriate gear before removing foot from brake.
 - . Turn off appropriate accessories prior to turning off ignition and removing key.
 - . Visually check traffic flow before opening door.
 - . Lock doors and/or secure any alarm system.

Judgment of Vehicle to Roadway Position.

- 2.1 Right Side of Vehicle.** The student is expected to:
- . Determine when the vehicle is positioned within 3-6 inches of the curb or a lane line.
 - . Determine when the vehicle is positioned within 2-3 feet of the curb or a lane line.
 - . Determine when the vehicle is positioned within 5-8 feet of the curb or a lane line.

- 2.2 Left Side of Vehicle.** The student is expected to:
- . Determine when the vehicle is positioned within 3-6 inches of the curb or a lane line.
 - . Determine when the vehicle is positioned within 2-3 feet of the curb or a lane line.
 - . Determine when the vehicle is positioned within 5-8 feet of the curb or a lane line.
- 2.3 Front of Vehicle.** The student is expected to:
- . Determine when the front bumper is positioned even with the curbline.
- 2.4 Rear of Vehicle.** The student is expected to:
- . Determine when the rear bumper is positioned even with a line.
- 2.5 Front Turning Point of Vehicle.** The student is expected to:
- . Determine where on the road the front is positioned for turning left.
 - . Determine where on the road the front is positioned for turning right.
- 2.6 Rear Turning Point of Vehicle.** The student is expected to:
- . Determine where on the road the rear is positioned for turning left.
 - . Determine where on the road the rear is positioned for turning right.
- 2.7 Application of Principles.** The student is expected to:
- . Demonstrate vehicle placement within typical lane space positions.
 - . Demonstrate vehicle placement within lane space when backing and turning.

Visualization of Intended Travel Path.

- 3.1 Target.** The student is expected to:
- . Identify an object or area that appears in the center and at the end of your intended travel path.
- 3.2 Target Area.** The student is expected to:
- . Identify the traffic problems and elements in and near the target area.
 - . Locate your target area, evaluate the Line of Sight or Path-of-Travel conditions and determine best approach speed and lane position.
- 3.3 Targeting Path.** The student is expected to:
- . Evaluate the target area, while developing an image of your targeting path.
 - . Identify elements that can change or modify the intended travel path.
 - . Determine risks associated with maintaining the intended path of travel.

4.0 Searching Intended Travel Path.

- 4.1 Target Area to Searching Areas.** The student is expected to:
- . Search to the target area 20 to 30 seconds ahead to evaluate its conditions and determine entry speed and position.
 - . Search for Line of Sight or Path-of-Travel changes that can or will affect the approach to the target area.
 - . As you are en route to the target area, continually re-evaluate risks in your immediate 4-6 second travel path.
 - . As you approach the target area, search for your new target area and new travel path that is 15 to 20 seconds ahead.
- 4.2 Know How to Judge Space in Seconds.** The student is expected to:
- . Visualize the space your vehicle will occupy at least 20-30 seconds ahead.
 - . Search 20-30 seconds ahead, continually evaluating the 4-6 second immediate path.
 - . Speed and/or lane position adjustments may be required when the search areas cannot be maintained.
- 4.3 Detect Changes to Line of Sight or Path-of-Travel.** The student is expected to:
- . Evaluate modification in the ability to see or maintain a travel path.
 - . When a Line of Sight or Path-of-Travel change is recognized, evaluate other zones/spaces for speed and lane adjustments.
- 4.4 Identify Open, Closed or Changing Spaces.** The student is expected to:
- . Identify the intended travel path for open, closed or changing conditions.
 - . Evaluate open, closed or changing conditions for speed and position adjustments.
- 4.5 Searching Intersections.** The student is expected to:
- . Search for open space to the left, front and right, when approaching an intersection,.
 - . Evaluate closed or changing spaces and make necessary speed and/or lane position adjustments, when approaching an intersection.
 - . Search for open spaces to the left, front and right, before entering an intersection,.

- 4.6 Searching Into Curves and Over Hills.** The student is expected to:
- . Search the line of sight and path of travel through the curve or over the hill crest for the possible closed or changing status of your path of travel, when the target area is a curve or a hill crest,
 - . Evaluate the LOS-POT for appropriate speed and position adjustments, before entering a curve or a hill crest.

5.0 Speed Control.

- 5.1 Selection For Ongoing Conditions.** The student is expected to:
- . Travel speed should be based upon driver, vehicle, legal, roadway, and environmental limitations.
 - . Constant adjustments to speed are based on driver processing information, based on limitations.
- 5.2 After Seeing Changes in Line of Sight or Path of Travel.** The student is expected to:
- . Avoid using acceleration into a closed or changing zone/space.
 - . Recognizing a closed space (a red light or stopped traffic), adjust speed to arrive as the space opens.
 - . When your ability to see a line of sight or path of travel is reduced, adjust speed to maintain or establish an open space.
- 5.3 After Seeing a Speed Limit Sign.** The student is expected to:
- . Recognize it as a cue to check vehicle gauges, mirrors, and evaluate line of sight or path of travel conditions.
 - . Adjust speed to meet driver, vehicle, legal, roadway, and environmental limitations.

6.0 Lane Position Selection.

- 6.1 Lane Position.** The student is expected to:
- . Select the appropriate lane for space managements, legal requirements, and destination.
- 6.2 Lane position usage while driving straight ahead.** The student is expected to:
- . Select a lane position to give best separation from closed or changing zones/space.
 - . Demonstrate ability to place vehicle in appropriate lane position.
- 6.3 Lane position usage while parking.** The student is expected to:
- . Select a lane position to give best separation from closed or changing zones/space.
 - . Demonstrate ability to place vehicle in appropriate lane position.
- 6.4 Lane position usage while turning around.** The student is expected to:
- . Select a lane position to give best separation from closed or changing space.
 - . Demonstrate ability to place vehicle in appropriate lane position.
- 6.5 Lane position usage while approaching curves and hill crests.** The student is expected to:
- . Establish the appropriate lane position on approach.
 - . Establish the appropriate lane position on apex.
 - . Establish the appropriate lane position on exiting.

7.0 Searching and Controlling the area to the Rear.

- 7.1 Inside Mirror Usage.** The student is expected to:
- . Search to the rear after seeing a change to your sightline or travel path.
 - . Search to the rear before and after making a turn or a stop.
 - . Search to the rear before and after making speed adjustment.
 - . Search to the rear before and after making lane position adjustment.
- 7.2 Outside Mirrors and Mirror Blind Zone Checks.** The student is expected to:
- . Check the side view mirror before adjusting a lane position in that direction.
 - . Visually check mirror blind zone after side view mirror use, before moving the steering wheel.
 - . Check the side view mirror before adjusting a lane position in that direction.
- 7.3 Evaluate Condition to the Rear.** The student is expected to:
- . Determine if the rear space is an open, closed, or changing condition.
 - . When a tailgater is closing or changing the rear space, determine the appropriate speed or lane adjustment needed.

8.0 Following Time and Space.

- 8.1 **Closure Rate on Approach.** The student is expected to:
 - . Approach the vehicle in front gradually, avoiding a fast closure rate.
- 8.2 **Moving at Same Speed - Maintaining Four Second Interval.** The student is expected to:
 - . When following another vehicle, work to maintain four seconds of time and space.
 - . Adjust speed or lane position if four seconds of time is difficult to maintain.
- 8.3 **When Stopping Behind Vehicles.** The student is expected to:
 - . When stopped behind a vehicle, be able to see the rear tires touching the pavement ahead to keep a minimum of fifteen feet of space.
 - . When stopped behind a vehicle without visibility to the rear, be able to see the driver in the side view mirror.
- 8.4 **Delay Start Before Moving.** The student is expected to:
 - . After the vehicle in front begins to move, delay your movement for two seconds to open the front zone/space.

9.0 Communication and Courtesy.

- 9.1 **Technique.** The student is expected to:
 - . Use turn signal light on before turning right or left.
 - . Use lane changer signal appropriate for moving to another lateral position.
 - . Use headlights on at all times to increase visibility.
 - . Use horn to make others aware of your presence.
 - . Tap brake lights to warn rear traffic of a slowdown or stop in the traffic flow.
 - . Use vehicle speed and position could communicate the driver's intention.
 - . Use hand signals should be used to establish eye contact with other roadway users.
- 9.2 **Timing.** The student is expected to:
 - . Put signal light on at least five seconds prior to moving since communication requires time to be sent, received and acted upon.
 - . Communicate early so that your safe path of travel can best be controlled.
- 9.3 **Commitment.** The student is expected to:
 - . Make sure your messages are acknowledged by others.

10.0 Using Three Steps to Problem-Solving.

- 10.1 **Search for a change to your line-of-sight and/or to your path-of-travel.** The student is expected to:
 - . Look for what may no longer make your intended path-of-travel available or safe.
- 10.2 **Evaluate your other zones/spaces for risk.** The student is expected to:
 - . Look for related information.
 - . Look for alternate path of travel.
 - . Get all information before acting.
- 10.3 **Execute an Adjustment.** The student is expected to:
 - . Get the Best Speed Control, Lane Position, and Communication for the Conditions
- 10.4 **Use a Practice Commentary.** The student is expected to:
 - . Develop the Process into Habit.
 - . Start with an appropriate speed and lane position for limitations and conditions.
 - . Look for line of sight or path of travel space changes.
 - . Explain and demonstrate the three steps to control the space change.
- 10.5 **Use a Practice Commentary (cont.).** The student is expected to:
 - . Develop the process for 10-15 minutes at a time as a rear seat occupant/observer.
 - . Repeat the process for 10-15 minutes at a time as a driver.

11.0 Responses to Emergency Situations.

- 11.1 **Identify and Respond to Vehicle Failures.** The student is expected to:
 - . Demonstrate ability to recognize engine failure and respond with appropriate actions.

- . Demonstrate ability to recognize brake failure and respond with appropriate actions.
- . Demonstrate ability to recognize tire pressure failure and respond with appropriate actions.

11.2 Identify and Respond to Environmental Conditions. The student is expected to:

- . Demonstrate ability to recognize traction loss and respond with appropriate actions.
- . Demonstrate ability to recognize when tires drop off pavement and respond with appropriate actions.
- . Demonstrate ability to recognize sudden POT restrictions and respond with appropriate actions.
- . Demonstrate ability to recognize sudden LOS restrictions and respond with appropriate actions.

12.0 Knowledge and skills.

12.1 Precision Turns. The student is expected to:

- . demonstrate and explain a proper side position
- . demonstrate and explain the forward position
- . search intersections left, front, and right to ascertain open zones/spaces
- . look into the turn before turning the steering wheel

12.2 Approach to Intersections. The student is expected to:

- . see and respond to open/closed zones
- . check and respond to rear zone conditions
- . establish and maintain proper lane usage and speed control
- . search left, front, and right zones for LOS-POT changes, get open zones before entering
- . demonstrate and use staggered, legal, and safety stop when applicable

12.3 Timing Arrival for Open Space. The student is expected to:

- . see condition of traffic light; adjust speed to arrive at a green light
- . see closed front zone; adjust speed to reduce closure rate and to arrive in an open zone
- . adjust speed to have at least one open side zone

12.4 Precision Lane Change. The student is expected to:

- . evaluate zones and mirror blind spots
- . move to LP2 (Lane Position 2, the left side of lane) for left lane change
- . move to LP3 (right side of lane) for right lane change
- . make final mirror blind spot check
- . enter new lane in LP2 or LP3
- . decide on best lane position for conditions

12.5 Approach to Curves. The student is expected to:

- . see curve in target area
- . check all zones for options
- . establish effective speed control
- . left curve approach LP3 if right zone is open, apex LP1, exit LP1
- . right curve approach LP2 if left zone is open, apex LP3, exit LP1

12.6 Passing/Being Passed. The student is expected to:

- . identify tailgater problems for speed and lane position adjustments
- . evaluate gain versus risk prior to attempting passing maneuver
- . check all zones for LOS-POT conditions
- . control speed and lane position

12.7 Getting On/Off Highways. The student is expected to:

- . slowest speed on entrance ramp for maximum searching time and options
- . evaluate gap to enter
- . effective speed on acceleration lane
- . getting off: plan ahead, test brakes

12.8 Backing Techniques. The student is expected to:

- . effective searching prior to and while backing
- . effective use of brake for speed control
- . effective steering technique

12.9 Parking Techniques. The student is expected to:

- . establish side position

- . demonstrate proper forward position
- . use minimum space to go forward
- . evaluate alignment to space
- . back to pivot point, turn wheel
- . visually target center of vehicle or space to the rear
- . straighten tires, demonstrate rear limitation reference

12.10 Turnabout Techniques. The student is expected to:

- . establish side position
- . demonstrate proper forward position
- . use minimum space to go forward
- . evaluate alignment to space
- . back to pivot point, turn wheel
- . visually target center of vehicle or space to the rear
- . straighten tires, demonstrate rear limitation reference

12.11 Responding to Emergency Situations. The student is expected to:

- . use vision control, motion control, and steering control sequences.
- . recognize and respond to adverse conditions that change vehicle traction.
- . recognize front wheel traction loss.
- . recognize rear wheel traction loss.
- . demonstrate appropriate controlled brake, trail brake, threshold brake, and antilock brake use.
- . recognize and respond to vehicle mechanical failures.

Essential Knowledge and Skills for Driver and Traffic Safety Education

Driver and Traffic Safety Education: Classroom Segment II

1.0 Mental and Perceptual Awareness

- 1.1 Dealing with Negative Reinforcement: The student is expected to:
- ✓ identify the effects of media on driver risk-taking.
 - ✓ relate how peers have affected their driver performance.
 - ✓ identify other driver behaviors that reinforce poor driving performances.
- 1.2 Developing Risk Awareness : The student is expected to:
- ✓ identify high risk situations.
 - ✓ identify methods to reduce driver risk in identified situations.
 - ✓ identify consequences associated driver behaviors and collision factors.
- 1.3 Making Effective Decisions: The student is expected to:
- ✓ identify driver errors contributing to collisions.
 - ✓ identify consequences associated high-risk driver behavior and vehicle operation.
 - ✓ identify driver actions to reduce severity of or avoid a collision.
- 1.4 Using a Space Management System: The student is expected to:
- ✓ identify three steps of the space management system employed.
 - ✓ relate how searching skills are developed for reduced-risk performance.
 - ✓ relate how evaluation skills are developed for reduced-risk performance.
 - ✓ explain hoe to execute speed and position adjustments with effective communication.

2.0 Driver Fitness Tasks

- 2.1 Fatigue Factors: The student is expected to:
- ✓ identify factors that may lead to driver fatigue.
 - ✓ relate fatigue to risk awareness and effective decision-making.
 - ✓ relate fatigue to other driver physical limitations.
- 2.2 Role of Emotions: The student is expected to:
- ✓ identify emotions which may affect driving performance
 - ✓ relate emotional factors to driving performance
 - ✓ recognize how emotions may play a role in driver attention to task.
- 2.3 Aggressive Driving Factors: The student is expected to:
- ✓ identify factors that may lead to road rage.
 - ✓ relate emotions to other driver emotional limitations.
 - ✓ relate emotions to risk awareness and effective decision-making.
- 2.4 Substance Abuse Factors: The student is expected to:
- ✓ recognize the impact of zero tolerance laws.
 - ✓ relate youthful alcohol collision risk involvement to adult alcohol collision risk involvement.

- ✓ identify the impact of blood alcohol concentrations (BAC) of less than .08% to .10% on driver risk awareness and decision-making.
- ✓ relate the psychological effects of alcohol on driving task.
- ✓ relate the physiological effects of alcohol on the driving task.
- ✓ develop a plan to avoid alcohol and other drug related driving

3.0 Avoiding Collision Threats

3.1 Driver Actions: The student is expected to:

- ✓ identify space management practices which may reduce risk and allow time for decision-making.
- ✓ identify steering actions used to avoid collisions and minimize impact.
- ✓ identify speed control techniques used to avoid collisions and minimize impact.
- ✓ identify driver strategies related to using new vehicle technologies effectively.

3.2 Knowing the Vehicle : The student is expected to:

- ✓ relate vehicle limitations associated with different vehicle types.
- ✓ relate how tire pressures and traction affect vehicle control.
- ✓ relate how a vehicle is designed to fit the style of use.

3.3 Vehicle Actions : The student is expected to:

- ✓ relate to effects of momentum , gravity, and inertia in personal driving situations.
- ✓ list and identify the purpose of new vehicle technology for reducing the collision effects of driver error.
- ✓ relate the concepts of vehicle understeer and vehicle oversteer to traction loss.

3.4 Environmental Factors: The student is expected to:

- ✓ identify weather related conditions which lead to a need for greater risk awareness and better decision-making.
- ✓ identify distracting situations which lead to a need for greater risk awareness and better decision-making.

Essential Knowledge and Skills for Driver and Traffic Safety Education

Driver and Traffic Safety Education: In-car Segment II

4.0 Assessing Space Management Skills.

4.1 **Commentary Driving Episode I.** The student is expected to:

- ✓ search for changes to path of travel and line of sight
- ✓ identify high risk situations
- ✓ evaluate methods to reduce driver risk in identified situations.
- ✓ explain consequences associated driver behaviors and collision factors
- ✓ execute appropriate speed and position adjustments accompanied by appropriate communication .

4.2 **Commentary Driving Episode II.** The student is expected to:

- ✓ identify restrictions to the path of travel.
- ✓ identify restrictions to the line of sight.
- ✓ execute appropriate speed and position adjustments, while checking space to the rear.

5.0 Advanced Collision Avoidance Actions (Off-Road Application).

5.1. **Driver Actions.** The student is expected to:

- ✓ identify steering actions used to avoid collisions and minimize impact.
- ✓ identify speed control techniques used to avoid collisions and minimize impact.
- ✓ identify driver strategies related to using new vehicle technologies effectively.

5.2 **Vehicle Actions.** The student is expected to:

- ✓ relate to effects of momentum , gravity, and inertia in personal driving situations.
- ✓ list and identify the purpose of new vehicle technology for reducing the collision effects of driver error.
- ✓ relate the concepts of vehicle understeer and vehicle oversteer to traction loss.