

In-Car Lesson #1 (1 hour per student)

Performance Objectives: Students will demonstrate pre-entry safety checks, pre-start adjustments of communication, safety, visibility and comfort devices prior to driving, starting procedures, operation of driving controls, basic vehicle maneuvers, stopping and securing the vehicle.

This lesson should be conducted on a parking lot or straight, level residential streets with open lines of sight and low density traffic that is traveling no more than 15 miles per hour. The lesson may progress to other areas with a variety of turning situations, but should not include exposure to faster moving through traffic until the student has demonstrated good vehicle control.

Performance Objectives

1. Make checks prior to entering and adjustments of safety, communication, visibility and comfort devices as needed prior to driving a motor vehicle.
2. Locate and explain the purpose of and operate as appropriate, all protective, information, communication, control and visibility devices.
3. Start the engine and prepare to move from a stopped position.
4. Enter, move, stop and secure a motor vehicle.
5. Use accelerator and brakes to control speed and stop a motor vehicle.
6. Demonstrate visual search, time/gap assessments and use of signals when positioning a motor vehicle within a lane and when changing lanes.

Learning Activities

1. Practice making safety checks prior to entering the vehicle and adjustments of protective, information, comfort, communication, visibility devices and vehicle controls.
2. Practice operating protective, information, control, communication and visibility devices as appropriate.
3. Practice proper sequence of actions for starting a motor vehicle safely. Practice moving a motor vehicle, parked at a curb, into moving traffic.
4. Practice pre-start, starting, moving, stopping and securing procedures.
5. Practice accelerating to and maintaining a designated speed. Practice appropriate visual checks, controlling speed and steering while adjusting position between and within lanes.
6. Practice making visual checks, communicating intentions and adjusting speed and position between and within lanes.

7. Control steering and speed when making left and right turns.

7. Practice coordinated use of turn signals, accelerator, brakes and steering while:

- making right and left turns
- maintaining proper control of speed and position while making right and left turns in low speed, low density traffic.

8. Stop and secure vehicle.

8. Practice moving a motor vehicle from a position in a travel lane, to a parked position, parallel to a curb. Practice proper sequence of actions for securing a vehicle parked at a curb.

In-Car Lesson #1

Procedure References

Pre-Entry Checks

1. Check around outside of vehicle for:
 - a. Broken glass (windows, lights, mirrors)
 - b. Body damage
 - c. Tires:
 1. Condition
 2. Inflation
 3. Direction front tires are turned
 - d. Fluid leaks
 - e. Objects that could damage vehicle when moved
 - f. Children and pets
2. If parked on street, approach driver's door, key in hand from front of vehicle
3. Unlock door and enter quickly

Preparing to Drive

1. Lock doors
2. Place key in ignition
3. Adjust seat for best control (Top of steering wheel should be no higher than the top of the driver's shoulders.) There should be at least 10" between the driver's body and the bottom of the steering wheel. (Use a wedge seat cushion, and/or pedal extensions for maximum field of view.)
4. Adjust inside and outside mirrors for maximum field of view
5. Fasten and adjust safety belt and make sure all passengers buckle up
6. Adjust head restraints

Starting the Engine

1. Check to be sure parking brake is set
2. Place foot on brake
3. Check selector lever for park position
4. Turn ignition on and check gauges; then start engine
5. Turn on low beam headlights
6. Allow engine to idle no more than 15 to 20 seconds (observe gauges while waiting)

Moving the Vehicle Forward

1. With foot on brake, shift to drive “D”
2. Release parking brake
3. Check mirrors and over shoulder for traffic
4. Signal when clear
5. When safe, release brake pedal and press gently on the accelerator
6. Look well ahead along your intended path of travel
7. Position hands on steering wheel. Left between 7-9 and right hand between 3-5 o’clock
8. Steer as needed to place vehicle in proper lane
9. Cancel signal

Approaching Intersections

1. Approaching intersection, search all corners for traffic controls, pavement markings, highway users and areas of limited visibility
2. Check mirrors for presence and actions of following traffic (Remember over 30 percent of reported crashes are rear-end collisions)
3. Be alert for traffic close to intended path
4. Adjust speed, stop if necessary

Turning at Intersections

1. Approaching intersection check for following, oncoming, cross traffic, other highway users, traffic control devices, condition of roadway and areas of limited visibility
2. Check mirrors for presence and actions of following traffic
3. Signal intent to turn at the intersection 3 to 4 seconds in advance or 100 feet
4. Position your vehicle for appropriate turn
5. Steer into proper lane
6. Tap brake pedal to alert following driver
7. Adjust speed as necessary, stopping if required
8. Recheck cross and oncoming traffic (90 percent of drivers do not stop for stop signs in residential areas)
9. Check mirrors
10. Identify a safe time/space gap in cross traffic
11. Look through turn to farthest possible point
12. Steer into proper lane using hand to hand (push/pull/slide steering)
13. Adjust speed as appropriate
14. Check mirrors for traffic to the rear

Stopping at a Curb

1. Identify place to park
2. Check mirrors
3. Signal
4. Release accelerator
5. Tap brake pedal to alert following drivers
6. Press brake pedal to point of resistance
7. Steer gently toward curb
8. Apply firm, steady pressure for smooth stops. Do not pump brakes.

Securing the Vehicle for Parking

1. Make sure the vehicle has stopped moving
2. Set parking brake
3. Shift selector lever to park
4. Turn off headlights if no daytime running lights (DRL's)
5. Turn ignition to lock and remove key
6. Check traffic to rear, exit vehicle, and lock doors

In-Car Lesson #2 **(1 hour per student)**

Performance Objectives: The students will demonstrate the ability to determine minimum time/space gaps for performing selected movements, in moderate density traffic, when traveling 25 to 40 miles per hour on two and four lane roadways. Maintain a safe path of travel on straight, hilly and curving streets with open and moderately restricted visibility. Enter, exit and cross traffic at uncontrolled and controlled intersections. Secure a motor vehicle when parked heading up or down hill with and without a curb.

Learning Objectives

1. Make the sequence of checks prior to entering and adjustments of visibility, communication, protective and comfort devices in preparation to drive.
2. Demonstrate the proper procedure for starting the engine and preparing to move from a stopped position.
3. Use accelerator and/or brake pedal to control speed and stop a motor vehicle.
4. Use proper steering procedures when steering straight ahead, through curves and turns.
5. Employ aggressive visual habits and practice making time/gap assessments when preparing to cross or turn at an intersection.
6. Demonstrate visual search, time/gap assessment abilities when positioning a vehicle in a lane and when changing lanes.
7. Demonstrate the proper procedure for parking a motor vehicle when facing up and down hill, with and without a curb.

Learning Activities

1. Demonstrate 20 to 30 second visual search.
2. Demonstrate 12 to 15 second visual control zone.
3. Demonstrate 8 to 12 second alternate path of travel.
4. Demonstrate using a 4 to 8 second stopping zone.
5. Demonstrate ability to maintain a 3 to 4 second following distance.
6. Search for objects or conditions on and near the roadway that could influence the level of risk when driving.
7. Evaluate actions of motor vehicle operators and other highway users that could increase the chance of conflict.
8. Make adjustments of speed and/or position as needed to reduce the chance of conflict with motor vehicle operators and other highway users.

Learning Activities (continued)

9. Search for adequate time/space gaps to safely make safe left and right turns to and from moving traffic.

10. Search for adequate time/space gaps to enter and make lane changes, left and right, in moving traffic.

11. Demonstrate procedure for parking and securing a motor vehicle when parking up and down hill with and without a curb.

In-Car Lesson #2

Procedure References

Preparing to Drive:

1. Perform pre-entry safety checks
2. Lock doors
3. Place key in ignition
4. Adjust seat for best control (Top of steering wheel should be no higher than the top of the driver's shoulders.) There should be at least 10" between the driver's body and the bottom of the steering wheel. (Use a wedge seat cushion, and/or pedal extensions for a proper fit)
5. Adjust inside and outside mirrors for maximum field of view
6. Fasten and adjust safety belt
7. Adjust head restraints

Starting the Engine:

1. Check to be sure parking brake is set
2. Place foot on brake
3. Check selector lever for park position
4. Turn ignition on and check gauges , then start engine
5. Turn on low beam headlights if no DRL's
6. Allow engine to idle no more than 15 to 20 seconds (Observe gauges while waiting)

Entering Traffic from the Side of the Roadway:

1. Signal and check traffic to front, side and rear
2. Identify a safe gap in traffic
3. Look well ahead along intended path of travel
4. Release brake and accelerate gently
5. Steer into intended path of travel
6. Cancel signal
7. Check for motor vehicles and other highway users to the sides of your path of travel
8. Check mirrors for traffic to the rear
9. Project visual search 20 to 30 seconds ahead

Concentrate on Path of Travel:

1. Identify target area 20 to 30 seconds ahead along path of travel
2. Imagine a line down middle of intended pathway
3. Search area to sides and oncoming traffic 4 to 8 seconds ahead along path of travel
4. Where space is limited on sides, stay closer to center line

Changing Lanes:

1. Maintain safe following interval
2. Check highway and traffic conditions ahead, to the sides and behind
3. Select a safe gap in traffic
4. Signal
5. Check mirror blind area in direction of lane change
6. Adjust speed and steer into lane
7. Cancel signal
8. Adjust speed to flow of traffic
9. Check mirrors for following traffic

Turning at Intersections:

1. Approaching intersection check for following, oncoming, cross traffic, other highway users, traffic control devices, condition of roadway and areas of limited visibility
2. Check mirrors for presence and actions of following traffic
3. Signal intent to turn at the intersection 3 to 4 seconds in advance or 100 feet
4. Position your vehicle for appropriate turn
5. Steer into proper lane
6. Tap brake pedal to alert following driver
7. Adjust speed as necessary, stopping if required
8. Recheck cross and oncoming traffic (90 percent of drivers do not stop for stop signs in residential areas)
9. Check mirrors
10. Identify a safe time/space gap in cross traffic
11. Look through turn to farthest possible point
12. Steer into proper lane using hand to hand (push/pull/slide steering)
13. Adjust speed as appropriate
14. Check mirrors for traffic to the rear

Leaving Traffic and Parking Up and Down Hill, With and Without a Curb:

1. Search ahead for place to park
2. Check following traffic
3. Signal
4. Release accelerator
5. Tap brake pedal to alert following drivers
6. Press brake pedal to point of resistance
7. Steer gently toward curb
8. Apply firm, steady pressure for smooth stops
9. Parking up or downhill without a curb and downhill with a curb:
 - a. Before securing vehicle, turn wheels sharply toward the edge of the road
 - b. Let leading edge of front tire touch road edge or curb
10. Parking uphill with a curb:
 - a. Before securing vehicle, turn steering wheel sharply away from the curb
 - b. Let vehicle roll back slowly until rear edge of tire gently touches curb

Securing the Vehicle for Parking:

1. Make sure the vehicle has stopped moving
2. Set parking brake
3. Shift selector lever to park
4. Turn off headlights if no daytime running lights DRL's
5. Turn ignition to lock and remove key
6. Check traffic to rear, exit vehicle, and lock doors

Exiting a Parking Space:

1. Start engine with foot on brake and shift to reverse
2. Back slowly and straighten wheels
3. Stop before striking any vehicle parked to rear
4. Check to front, rear and sides for safe path
5. Signal intentions and select safe gap
6. Search ahead and select target area
7. Accelerate smoothly, and steer into proper lane
8. Cancel signal, search ahead along path of travel
9. Accelerate to appropriate speed
10. Check traffic to rear

Observer Learning Activities In-Vehicle Lessons 2

In moderate density traffic traveling 25 to 40 mph, conduct a systematic search of the roadway for objects and conditions in or adjacent to the path of travel that could increase risk.

Search for roadway conditions, other motor vehicle operators, signs-signals-markings, and non-motorized highway users that increase the level of risk. Evaluate the actions of motor vehicle operators and other highway users that could increase the possibility of conflict.

Practice determining a:

1. 20-30 second visual lead
2. 12-15 second visual control zone
3. 8-12 second alternate path of travel
4. 4-8 second stopping zone
5. 3-4 second following distance

Over each segment of roadway identified by the instructor, the student observers will award a value of 0 - 5 in the appropriate column to indicate the driver's response to conditions of increased risk: limited visibility, space and whether the appropriate speed or position adjustment was completed and communicated.

- 5 = Communicated; appropriate adjustment of speed and position
- 4 = Communicated and adjusted speed; no position adjustment
- 3 = Communicated and adjusted position; no speed adjustment
- 2 = Late; but acceptable adjustment of speed/position; no communication
- 1 = Slight adjustment; barely adequate
- 0 = No observable response

SUBURBAN

| Roadway Segment | Location | Visibility | Space | Communication | Score |
|-----------------|----------|------------|-------|---------------|-------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

In-Car Lesson #3 (1 hour per student)

Performance Objectives: Students will demonstrate correct visual steering, speed control and gap assessment techniques for each of the following: approaching an intersection, completing left and right turns at intersections, changing lanes, backing straight, and backing left and right.

Learning Objectives

1. Make required safety checks prior to entering the vehicle and adjustment of visibility, communication, protective and comfort devices in preparation to drive.
2. Demonstrate the proper procedure for starting the engine and moving a parked vehicle into traffic.
3. Demonstrate proper visual search and time/space gap assessments when:
 - α. Crossing or turning at an uncontrolled intersection
 - β. Crossing or turning at an intersection controlled by stop signs or traffic signals.
 - χ. Turning at signalized intersections with more than one turn lane, or protected turn lanes.
 - δ. Positioning a vehicle in a lane, when changing lanes, or entering or exiting traffic using a shared left turn lane.
4. Demonstrate visual search, targeting, steering and speed control while:
 - α. Backing in a straight line.
 - β. Backing while turning to the left and right.

Learning Activities

1. Identify traffic controls, motor vehicles, other roadway users, areas of limited visibility and condition of the roadway that could influence the path of travel.
2. Identify adequate time/space gaps to make left or right lane changes and adjust position within a lane in moving traffic.
3. Communicate intended move to other highway users.
4. Comply with laws regulating intended move.
 - α. Right turn on red
 - β. Advanced/delayed movement arrows
 - χ. Multiple left and right turn lanes
 - δ. Shared left turn lanes
5. Identify adequate time/space gap to safely make left and right turns to and from moving traffic.
6. Adjust speed/position for actions of motor vehicle operators and other highway users that could increase the level of risk.
7. Adjust body position to improve visual search, targeting, steering and speed control while backing straight, to the left and right

In-Car Lesson #3

Procedure References

Concentrate on Path of Travel:

1. Identify area 20 to 30 seconds ahead along path of travel
2. Imagine a line down middle of intended pathway
3. Search area to sides, and oncoming traffic 4 to 15 seconds ahead along path of travel
4. Where space is limited on sides, stay closer to center line

Changing Lanes:

1. Maintain safe following interval
2. Check highway and traffic conditions ahead, to the sides and behind
3. Select a safe gap in traffic
4. Signal
5. Check mirror blind spot in direction of lane change
6. Adjust speed and steer into lane
7. Cancel signal
8. Adjust speed to flow of traffic
9. Check mirrors for following traffic

Turning at Intersections:

1. Approaching intersection check for following, oncoming, cross traffic, other highway users, traffic control devices, condition of roadway and areas of limited visibility
2. Check mirrors for presence and actions of following traffic
3. Signal intent to turn at the intersection 3 to 4 seconds in advance or 100 feet
4. Position your vehicle for appropriate turn
5. Steer into proper lane
6. Tap brake pedal to alert following driver
7. Adjust speed as necessary, stopping if required
8. Recheck cross and oncoming traffic (90 percent of drivers do not stop for stop signs in residential areas)
9. Check mirrors
10. Identify a safe time/space gap in cross traffic
11. Look through turn to farthest possible point
12. Steer into proper lane using hand to hand (push/pull/slide steering)
13. Adjust speed as appropriate
14. Check mirrors for traffic to the rear

Using Multiple Turn Lanes:

1. At least one block ahead of turn, identify and prepare to enter lane from which turn will be made
2. Check mirrors for following traffic and make head check in direction of lane change
3. Identify safe gap and signal intentions
4. When safe, enter appropriate lane
5. Check intersection for traffic controls, oncoming and cross traffic areas of limited visibility and other highway users
6. Check mirrors for following traffic and head check for vehicles in adjacent lanes
7. Signal intention to turn
8. Adjust speed as appropriate, stopping if needed
9. When traffic signal or arrow is green and it is safe to go, steer into lane corresponding to the one from which you started
10. Be alert for oncoming vehicles turning in the same direction
11. Be alert for other roadway users crossing the street
12. Be alert for vehicles in adjacent turn lane crossing into your lane

Using a Shared Left Turn Lane to Enter a Driveway:

1. Check oncoming traffic
2. Check oncoming traffic signaling a left turn (Possibly intending to use shared left turn lane)
3. Check traffic to the rear
4. Check for traffic, entering shared left turn lane from left or right sides of the roadway
5. Signal intention 3 to 4 seconds in advance of turn and check mirror blind spots
6. Adjust speed, move into two-way left turn lane no more than 2 to 3 seconds ahead of turn
7. Stop if necessary; complete turn when there is a safe gap in oncoming traffic

Using a Shared Left Turn Lane to Enter Traffic:

1. Signal a left turn and stop at edge of roadway
2. Check for drivers on opposite side of roadway signaling a left turn
3. Check traffic to the rear
4. Check for safe gap in traffic to the left and right
5. If traffic is clear in both directions, enter first through lane to left
6. If there is a gap to the left but not to the right, move out into the two-way left turn lane and stop
7. Turn on right turn signal
8. Recheck oncoming vehicles and vehicles on right, signaling left turns
9. When traffic lane to right is clear, accelerate and steer into nearest traffic lane
10. Cancel signal if necessary
11. Check mirrors for following traffic

Backing Straight:

1. Prior to moving vehicle, check for objects to the rear
2. Place foot on brake pedal and shift to reverse
3. Grasp steering wheel at 12 o'clock with left hand
4. Turn body to right with right arm over back of seat
5. Search through rear window and then glance forward
6. Move backward at idle speed, or use light accelerator pedal pressure if needed
7. Make minor steering corrections as needed
8. Release accelerator and apply pressure on brake pedal to stop
9. Look to rear until vehicle is stopped

Backing and Turning:

1. Prior to moving vehicle, check for objects to the rear
2. Place foot on brake pedal and shift to reverse
3. Grasp steering wheel with both hands
4. Turn body in direction of turn
5. Search through rear side window in direction of turn
6. Move backward at idle speed, or light accelerator pedal pressure if needed
7. Steer smoothly in direction vehicle is to move
8. Make quick checks to front, side opposite of turn
9. Release accelerator and apply pressure on brake pedal to stop
10. Look to rear until vehicle is stopped

In-Car Lesson #4 **(1 hour per student)**

Performance Objectives: Students will use space management principles (Search - Evaluate - Execute) to reduce the chance of conflict in moderate density traffic traveling at speeds up to 50 mph. Demonstrate lane changes, merging, and exiting in free flow traffic. Employ commentary driving while adjusting speed, adjusting position and communicating in response to changes in space around the vehicle. Demonstrate two-point turnabout and angle parking in an off-street area or low density residential traffic.

Learning Objectives

1. Demonstrate proper time/space gap assessments while responding to:
 - α. Highway conditions
 - β. Traffic control devices
 - χ. Motorized vehicles
 - δ. Non-motorized highway users
2. Demonstrate visual search, targeting, steering and speed control while:
 - α. Backing into a driveway/alley on the right
 - β. Turn left into driveway and back out to the right
3. Demonstrate visual search, targeting, steering and speed control while:
 - α. Entering and exiting angle parking spaces
 - β. Entering and exiting perpendicular parking spaces

Learning Activities

1. Identify and communicate, adjust speed and/or position to reduce risk in response to highway conditions that adversely affect space, traction and/or visibility.
2. Identify and adjust speed and/or position in response to traffic information, direction, warning and control devices.
3. Identify and communicate, adjust speed and/or position to reduce risk in response to vehicle condition or driver actions.
4. Identify and communicate, adjust speed and/or position to reduce risk in response to the presence and/or actions of non-motorized highway users.
5. Adjust body position to improve visual search, targeting, steering and speed control while backing.
6. Establish sight lines, target area, communicate and control steering and speed while entering and exiting angle parking spaces.

In-Car Lesson #4

Procedure References

Concentrate on Path of Travel:

1. Identify area 20 to 30 seconds ahead along path of travel
2. Imagine a line down middle of intended pathway
3. Identify an alternate path of travel 12 to 15 seconds ahead into which you can steer if necessary
4. Search area to sides and oncoming traffic 4 to 15 seconds ahead along path of travel
5. Maintain 3 to 4 seconds following distance

Assessing Highway Conditions:

1. Identify and respond as appropriate to areas of reduced visibility
2. Identify and respond as appropriate to areas of reduced space
3. Identify and respond as appropriate to areas of reduced traction

Identifying and Responding to Traffic Control Devices:

1. Identify and respond as appropriate to traffic signs
2. Identify and respond as appropriate to traffic signal lights
3. Identify and respond as appropriate to pavement markings

Searching for Clues to Motorized User Actions:

1. Identify and respond as appropriate to other roadway users
2. Identify and respond as appropriate to large vehicles
3. Identify and respond as appropriate to delivery vehicles
4. Identify and respond as appropriate to condition of vehicles
5. Identify and respond as appropriate to farm and recreational vehicles
6. Identify and respond as appropriate to driver actions

Searching for Clues to Non-Motorized User Actions:

1. Identify and respond as appropriate to presence and actions of pedestrians
2. Identify and respond as appropriate to presence and actions of bicyclists
3. Identify and respond as appropriate to presence and actions of wild and domestic animals

Turning Around by Backing into an Alley or Driveway on the Right:

1. Check traffic to rear and tap brake pedal to alert following drivers
2. Signal intention to turn right and check to make sure the driveway/alley is clear
3. Stop with rear bumper of vehicle in line with the far edge of the driveway/alley
4. Check traffic to sides and rear
5. When safe, back slowly, turning steering wheel rapidly all the way to the right
6. As vehicle centers in driveway/alley, straighten wheels
7. Continue backing straight until front of vehicle clears the curb
8. Stop, turn on left signal and shift to drive
9. Check traffic in both directions
10. When safe, turn left into proper lane and accelerate as appropriate
11. Check traffic to the rear

Turning Around by Heading into an Alley or Driveway on the Left:

1. Select a driveway/alley on the left that is clear of obstacles and where visibility will not be blocked when backing into street
2. Check to rear and tap brake pedal to alert following drivers
3. Signal intention to turn left
4. When safe, turn into driveway/alley as close as possible to the right side
5. Stop as rear bumper clears curb or edge of roadway
6. Signal a right turn and shift to reverse
7. Check in all directions for vehicles and other highway users
8. When safe, move slowly back, turning steering wheel rapidly all the way to the right
9. Check left front while backing to make sure there is a clear space as you turn
10. As vehicle centers in nearest lane, straighten wheels, stop and shift to drive
11. Cancel right turn signal and accelerate smoothly
12. Check traffic to rear

Entering an Angle Parking Space:

1. Identify space to be entered
2. Signal intention to turn left or right
3. Position vehicle 5 to 6 feet from rear of parked vehicles
4. Move forward slowly until driver can look straight down the line marking the near side of parking space to be entered
5. Look to the center of the parking space
6. Move forward slowly, turn steering wheel sharply left or right as appropriate (Danger points are front bumper on the far side and rear bumper of the vehicle on the near side of the space to be entered)
7. As vehicle centers in space, straighten wheels
8. Move forward to the front of the parking space, stop and secure vehicle

Exiting an Angle Parking Space:

1. With engine started, foot on brake, signal direction of turn
2. Check in all directions for vehicle and pedestrian traffic
3. When safe, shift to reverse
4. Move straight back until back of front seat/door post is in line with rear of vehicle on side of turn
5. Turn steering wheel in direction of turning movement. Check front bumper clearance on side opposite direction of turn
6. When front bumper clears back of vehicle on side of turn, stop, shift to drive

Entering a Perpendicular Parking Space:

1. Identify space to be entered
2. Signal intention to turn left or right
3. Position vehicle 8 to 9 feet from rear of space driver wishes to enter
4. Move forward slowly until driver can see straight down the line marking the near side of parking space ahead of the one to be entered
5. Look to the center of the parking space
6. Move forward slowly, turning the steering wheel sharply left or right as appropriate (When parking between vehicles, the danger points are the front bumper on the far side, and the rear bumper of the vehicle on the near side of the space)
7. As vehicle centers in space, straighten wheels
8. Move forward to the front of the parking space, stop and secure vehicle

Exiting a Perpendicular Parking Space:

1. With engine started, foot on brake, signal direction of turn
2. Check in all directions for vehicle and pedestrian traffic
3. When safe, shift to reverse
4. Move slowly back until windshield is in line with rear of vehicles parked on either side
5. Turn steering wheel slowly in direction of turning movement. Check front bumper clearance on side opposite direction of turn
6. As front bumper of vehicle clears vehicle on side opposite of turn, turn steering wheel sharply in direction to avoid striking vehicle parked in opposite row
7. When vehicle centers in lane, stop, shift to drive
8. Accelerate smoothly, steering as needed to straighten wheels

Observer Learning Activities In-Vehicle Lesson 4

In moderate density traffic traveling up to 50 mph, conduct a systematic search of the roadway for objects and conditions in or adjacent to the path of travel that could increase risk.

Search for roadway conditions, other motor vehicle operators, signs-signals-markings, and non-motorized highway users that influence the level of risk. Evaluate the actions of motor vehicle operators and other highway users that could increase the possibility of conflict.

Identify the similarities and differences in visual search patterns and vehicle control requirements when turning at an intersection, changing lanes and steering through a curve.

Practice determining a:

1. 20-30 second visual lead
2. 12-15 second visual control zone
3. 8-12 second alternate path of travel
4. 4-8 second stopping zone
5. 3-4 second following distance

Over each segment of roadway identified by the instructor, the student observers will award a value of 0 - 5 in the appropriate column to indicate the driver's response to conditions of increased risk: limited visibility, space and whether the appropriate speed or position adjustment was completed and communicated.

- 5 - Communicated; appropriate adjustment of speed and position
- 4 - Communicated and adjusted speed; no position adjustment
- 3 - Communicated and adjusted position; no speed adjustment
- 2 - Late; but acceptable adjustment of speed/position; no communication
- 1 - Slight adjustment; barely adequate
- 0 - No observable response

Open Highway

| Roadway Segment | Location | Visibility | Space | Communication | Score |
|-----------------|----------|------------|-------|---------------|-------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

In-Car Lesson #5 (1 hour per student)

Performance Objectives: Students will demonstrate risk management through communication, speed and position adjustments in complex traffic situations on country highways, limited access highways, and city streets. Planned exercises will include: following and meeting other vehicles, merging onto, driving through and exiting freeway interchanges, assessing passing time/space gap needs and parallel parking.

Learning Objectives

1. Demonstrate the ability to communicate and make changes of speed and position as appropriate in traffic when:

- α. Intersecting with other highway users
- β. Following and being followed
- χ. Merging with and exiting a freeway
- δ. Meeting oncoming vehicles on a two-lane highway
- ε. Passing and/or being passed
- φ. Parallel parking

Meeting or passing oversized, slow-moving farm vehicles

Learning Activities

1. Identify adequate time/space gaps to make safe left and right turns from and into moving traffic.
2. Identify and maintain a minimum following distance of 3 to 4 seconds, adjust speed and position as needed to manage risk to the rear.
3. Communicate presence and adjust speed and position as needed to manage risk when entering, driving on and exiting an expressway.
4. Communicate presence and adjust speed and/ or position as needed when meeting oncoming traffic on a two-lane highway.
5. Identify adequate time/space gaps, adjust speed and/or position, and communicate as needed when passing or being passed.
6. Identify adequate time/space gaps, adjust speed and position, and communicate as needed when changing lanes.
7. Establish sight lines, communicate and control steering and speed while entering and exiting a parallel parking space.

In-Car Lesson #5

Procedure References

Concentrate on Path of Travel:

1. Identify area 20 to 30 seconds ahead along path of travel
2. Identify an alternate path of travel 12 to 15 seconds ahead into which you can steer if necessary
3. Search area to sides and oncoming traffic 4 to 15 seconds ahead along path of travel
4. Identify a stopping zone 8 to 12 seconds ahead
5. Where space is limited on sides, stay closer to center line
6. Maintain a 3 to 4 second following distance, adjust speed and position as needed for following traffic

Assessing Highway Conditions:

1. Identify and respond as appropriate to areas of reduced visibility
2. Identify and respond as appropriate to areas of reduced space
3. Identify and respond as appropriate to areas of reduced traction

Turning at Intersections

1. Approaching intersection check for following, oncoming, cross traffic, other highway users, traffic control devices, condition of roadway and areas of limited visibility
2. Check mirrors for presence and actions of following traffic
3. Signal intent to turn at the intersection 3 to 4 seconds in advance or 100 feet
4. Position your vehicle for appropriate turn
5. Steer into proper lane
6. Tap brake pedal to alert following driver
7. Adjust speed as necessary, stopping if required
8. Recheck cross and oncoming traffic (90 percent of drivers do not stop for stop signs in residential areas)
9. Check mirrors
10. Identify a safe time/space gap in cross traffic
11. Look through turn to farthest possible point
12. Steer into proper lane using hand to hand (push/pull/slide steering)
13. Adjust speed as appropriate
14. Check mirrors for traffic to the rear

Expressway Driving:

1. **Entering an expressway**
 - a. Identify entrance at least 1/2 mile in advance
 - b. Check traffic in all directions
 - c. Signal, position in proper lane and adjust speed as necessary
 - d. Enter ramp and adjust speed
 - e. Identify weave or collector distributor lane
 - f. Identify adequate space gap for merging
 - g. Signal presence and intent to enter
 - h. Adjust speed and merge into travel lane (Remember exiting vehicles are to be given right of way at weave lane interchanges)
 - i. Adjust to travel speed
 - j. Check mirrors for following traffic
2. **Driving on an expressway**
 - a. Select lane for through traffic and safe speed
 - b. Identify and respond as appropriate to large vehicles
 - c. Identify and respond as appropriate to condition of vehicles
 - d. Identify and respond as appropriate to driver actions
 - e. Identify and adjust speed and/or position for entering and exiting traffic
3. **Exiting an Expressway**
 - a. Identify exit at least one mile in advance
 - b. Check traffic in all directions
 - c. Signal, position in proper lane and adjust speed as necessary
 - d. Identify weave or collector distributor lane
 - e. Signal presence and intent to exit
 - f. Identify adequate space gap for merging
 - g. Enter exit ramp and adjust speed
 - h. Check for traffic ahead and behind, traffic controls and highway users
 - i. Adjust to travel speed of new freeway or surface road as appropriate
 - j. Check mirrors for following traffic

Meeting, Following and Being Followed on Two-Lane Roads:

1. Avoid meeting:
 - a. Large vehicles at areas of reduced space
 - b. Other vehicles when approaching pedestrians, bicyclists or vehicles stopped on road shoulder
 - c. Other vehicles where road may be slippery
 - d. Other vehicles where strong crosswinds may cause steering difficulty
2. Increase following distance when:
 - a. Following any vehicle that blocks the visual field
 - b. Approaching a railroad crossing or intersection
 - c. Traction is reduced
 - d. Tired or upset
 - e. Being tailgated
 - f. Driving in or near a pack of vehicles
3. Speed selection
 - a. Adjust speed if line of sight is restricted
 - b. Adjust speed for changes in roadway surface
 - c. Adjust speed for curves
 - d. Maintain speed on hills

Passing and Being Passed on Two-Lane Highway:

1. Being Passed
 - a. Keep to right side of lane
 - b. Maintain speed, slow if appropriate to let other driver complete pass safely
2. Passing
 - a. Check oncoming and following vehicles, vehicles slowing ahead, vehicles or other highway users about to enter roadway from driveways, intersections or the shoulder
 - b. Check mirrors and head check for passing vehicles
 - c. When safe, signal intention to pass
 - d. Initiate pass at least two seconds behind vehicle to be passed
 - e. Steer smoothly into passing lane
 - f. Maintain or adjust speed as necessary
 - g. Search highway ahead and check mirrors
 - h. Make sure vehicle does not drift toward vehicle being passed
 - i. Continue in passing lane until complete front of passed vehicle is visible in rear view mirror
 - j. Signal intention to return to lane
 - k. Steer smoothly into lane, maintain or adjust speed as appropriate
 - l. Cancel turn indicator

Entering a Parallel Parking Space:

1. Identify parking space
2. Check following traffic
3. Tap brake pedal and signal intentions
4. Stop with back of front seats/center door post aligned
5. Shift to reverse, check traffic and look in direction of intended move
6. Back slowly, turning steering wheel rapidly left or right as appropriate
7. Back until back of front seat/center door post is in line with rear bumper of vehicle parked in space ahead
8. Back slowly while turning steering wheel back to straight
9. Check front to make sure wheels are straight
10. Back slowly until front bumper is in line with rear bumper of vehicle parked in space ahead
11. Move slowly back, turning steering wheel rapidly left or right as appropriate
12. Stop before touching vehicle parked in space to the rear
13. Shift to drive, move slowly forward turning wheels sharply toward curb/edge of road
14. Stop centered in space, within 12" of curb/edge of road. Secure vehicle.

Exiting a Parallel Parking Space:

1. Foot on brake, start engine and shift to reverse and release parking brake
2. Check vehicle behind, move slowly back, straighten wheels
3. Stop and shift to drive
4. Signal intentions
5. Check mirrors and over shoulder for vehicles and other highway users
6. Select safe gap, move slowly forward steering rapidly left or right as appropriate
7. Check front bumper for clearance of rear bumper of vehicle parked in space ahead
8. Move slowly forward straightening wheels
9. Move slowly forward until back of front seat/center door post is in line with rear bumper of vehicle parked in space ahead
10. Steer into lane and accelerate to appropriate speed
11. Cancel turn indicator
12. Check traffic to rear

**Observer Learning Activities
In-Vehicle Lesson 5**

In high density traffic traveling on two and four lane city streets with open and restricted visibility conduct a systematic search of the urban environment for objects and conditions in or adjacent to the path of travel that could increase the chance of conflict.

Identify objects and conditions such as roadway conditions, motor vehicles, signs-signals-markings, non-motorized highway users and off-road activities that could influence the level of risk. Predict the actions of motor vehicle operators and other roadway users that could increase the possibility of conflict.

Identify the similarities and differences in visual search patterns and vehicle control demands when turning at an intersection, changing lanes and interacting with traffic.

Practice determining a:

1. 20-30 second visual lead
2. 12-15 second visual control zone
3. 8-12 second alternate path of travel
4. 4-8 second stopping zone
5. 3-4 second following distance

Over each segment of roadway identified by the instructor, the student observers will award a value of 0 - 5 in the appropriate column to indicate the driver's response to conditions of increased risk: limited visibility, space and whether the appropriate speed or position adjustment was completed and communicated.

- 5 = Communicated; good adjustment of speed and position
- 4 = Communicated and adjusted speed; no position adjustment
- 3 = Communicated and adjusted position; no speed adjustment
- 2 = Late; but acceptable adjustment of speed/position; no communication
- 1 = Slight adjustment; barely adequate

City

| Roadway Segment | Location | Visibility | Space | Communica-tion | Score |
|------------------------|-----------------|-------------------|--------------|-----------------------|--------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

In-Car Lesson #6

(1 hour per student)

Performance Objectives: Students will demonstrate pre-drive procedures, knowledge and operation of information, communication, safety devices and vehicle control, basic vehicle maneuvers, intersection approach and safe turning procedures, time and space management through the selection of speed and position when traveling in a flow of traffic, driving through a curve, and the application of rules and laws. Driving environments will include parking lots, country highways, freeways and business district streets.

Learning Objectives

1. Demonstrate pre-entry check procedures
2. Demonstrate pre-drive and starting procedures
3. Demonstrate movement of the vehicle forward and to the rear
4. Demonstrate smooth, precise movement of vehicle from curb into traffic flow
5. Demonstrate approaching and turning at two and multi-lane intersections with one and two-way traffic, with and without traffic control devices, with one and multiple turn lanes
6. Demonstrate controlled braking stop
7. Demonstrate how to park on a hill
8. Demonstrate turnabouts
9. Demonstrate angle and parallel parking
10. Demonstrate commentary driving regarding, "Highway Elements," "Signs, Signals and Markings," "Motorized Vehicles" and Non-Motorized Highway Users as appropriate
11. Demonstrate management of speed and position on a rural highway, preferably with hills, curves, areas of limited visibility and slow moving vehicles
12. Demonstrate how to Search, Evaluate and Execute when entering, driving on and exiting a freeway
13. Demonstrate how to Search, Evaluate and Execute in moderately heavy business district traffic

Learning Activities

1. Final assessment of all objectives using an assessment form.
2. Driver assessment should be completed each driving session. Using the form on the back of this page, score the driver on each activity performed during the lesson.
3. The first lesson would cover the first six items on the score sheet. The instructor would mark these six items using the scoring guide provided.
4. Lesson 2 through Lesson 5 will score the first six items and all additional items that are performed.

Assessment:

1. Review and assess tasks performed in this lesson
2. Lesson 6 should have all items marked and the Pass or Fail should be circled.
3. Both the driver and the instructor should sign the progress record.

Driver Education Student In-Car Evaluation/Progress Record

Student _____

Instructor _____

Dates of Lesson (may be more than one date):

| | | | |
|----|--|----|--|
| 1. | | 1. | |
| 2. | | 2. | |
| 3. | | 3. | |

In evaluating a driver's performance, use the following rating scale as a guide:

- 4 = Performs without any coaching
- 3 = Performs adequately but needs occasional coaching
- 2 = Performs but only with significant coaching
- 1 = Does not perform adequately with teaching

| | L-1 | L-2 | L-3 | L-4 | L-5 | L-6 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|
| Pre-entry checks | | | | | | |
| Pre-start and starting | | | | | | |
| Moving forward | | | | | | |
| Moving backward | | | | | | |
| Entering traffic | | | | | | |
| Right Turns | | | | | | |
| Left turns | | | | | | |
| Negotiating intersections | | | | | | |
| Changing lanes | | | | | | |
| Slowing and stopping | | | | | | |
| Parking and securing | | | | | | |
| Parking on grades | | | | | | |
| Angle parking | | | | | | |
| Parallel parking | | | | | | |
| Turnabouts | | | | | | |
| Assessing highway conditions | | | | | | |
| Space management | | | | | | |
| Response to traffic controls | | | | | | |
| Response to other users | | | | | | |
| Passing | | | | | | |
| Commentary driving | | | | | | |
| Speed | | | | | | |
| Driving conditions when appropriate: | | | | | | |
| Adverse weather | | | | | | |
| Night driving | | | | | | |

Final Evaluation: Pass Fail (circle one)

Instructor Signature and #: _____ Driver Signature: _____

Sample Completion Letter To Parent/Guardian/Mentor

School Letterhead

Date:

Address:

Dear (Name Of Parent/Guardian/Mentor):

(Novice driver's name) has successfully completed a basic driver education course consisting of 30 hours of classroom instruction and 6 hours of behind-the-wheel instruction. Also you and your novice driver should have been making extensive progress in the required 60 hours of supervised practice by using the Skills Log.

Even though your novice driver has successfully completed driver education through our school, it is my recommendation that he/she needs additional practice time in one or more of the following areas:

- _____ Driver preparation and procedures
- _____ Correctly responding to traffic control devices
- _____ Driving in adverse conditions
- _____ Residential driving
- _____ Driving on the open highway (2 or 4 lane with speeds up to 50 mph.)
- _____ Moderate, in-town traffic (suburban areas)
- _____ In a business district with heavy traffic
- _____ On the expressway with speeds up to 65 mph (entering, driving on and exiting)
- _____ Changing lanes in traffic
- _____ Passing other vehicles
- _____ Stopping and accelerating smoothly
- _____ Negotiating intersections
- _____ Turning left at intersections (gap selection)
- _____ Turning right at intersections
- _____ Space Management - S.E.E. (Search, Evaluate, Execute)
- _____ Parking: Indicate type: _____
- _____ Backing in a straight lane
- _____ Backing while turning
- _____ Other: _____

Completion of this course does not mean that your novice driver is a good driver. Evidence indicates that it takes five years of driving experience to become as "good" as the average driver. Your novice driver needs much more practice and experience. Please take additional time out of your schedule to work with him/her to get this practice.

If you have any questions, contact me here at the school.

Sincerely,

Instructor's Signature