

Unit 4: Additional Topics for Drivers and Vehicle Owners In Car Resources

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SESSION 13 BTW – EMERGENCY RESPONSE AND RECOVERY

Topics Addressed:

- What to do if you are pulled over/stopped by law enforcement
- How different skids happen
- How to respond when involved in a collision

Description of Suggested Driving Route:

Rural highway

Supporting Topics for Discussion:

- Collision/crash
- Evasive maneuvers
- Skidding
- Hydroplaning
- Power skid
- Braking skid
- Cornering skid
- Blowout skid
- Crash report requirements
- Law enforcement stop
- Making way for emergency vehicles

Fundamental Driving Skills:

- Continue working on driving skills and situations in various driving environments/routes
- In-Vehicle Discussion:
 - Locate the registration and insurance card for the vehicle
 - Recognize each time you get into the vehicle that the inspection stickers are current
 - Eyeball tires to determine inflation and know how to do the penny test
 - Review a crash report and requirements to determine what questions you might need to answer if involved in a collision/crash
 - Discuss why various skids occur and what actions might help you pull out of a situation safely
 - Review responsibility as a driver when law enforcement pulls you over

Supporting Learning Activities:

- **Activities for the Student Driver While Behind the Wheel:**
 - [Instructor's Checklist for Driver's Performance](#)
- **Activities for the Student Observers:**
 - [Instructor's Checklist for Observer's Participation](#)
 - [Activity 13.1](#)
 - [Activity 13.2](#)

Supporting Activities for Parents/Guardians to Complete with Their Student Driver:

- Associated Sections of Children's Hospital of Philadelphia "*TeenDrivingPlan*" Practice Guide
- Associated National Safety Council "*DriveitHome*" Pointers for Parents

Assessment Tools:

- On-going Evaluation Sheet
- Student Card Rating Score 5-4-3-2-1
- Skill/Observation Scores
- Ask observers to watch for 2 skill strengths and 2 skill weaknesses that each driver might improve

SESSION 13 BTW SKILLS AND ACTIVITIES – EMERGENCY RESPONSE AND RECOVERY

<i>Instructor’s Checklist of Driver’s Performance - check off the characteristics reviewed and demonstrated on various routes.</i>	
	Explain dangers/consequences of driving at high speeds in the following environments: ice, snow, wet, gravel roads, and hydroplaning
	Explain dangers/consequences of driving at high speeds in the following environments: hydroplaning, power skidding, braking skidding, cornering skidding and front wheel skidding
	List Highway Transportation System (HTS) components, rules and responsibilities when involved in a collision/crash
	Execute and explain responsibilities of the driver related to the safety of passengers, vehicles, and property
	Execute proper “pull-over protocol” and explain “do’s and don’ts” when complying with requests from law enforcement authorities when performing a mock “police pull-over”

<i>Instructor’s Checklist for Observer’s Participation - discuss and review the following topics with the observers in the vehicle.</i>	
	In a safe area, review drop-off the road situations, how they occur, and how to use off-road recovery techniques
	Know where the emergency flashers are, when to use them, and how to set up emergency flares
	Make and review a list of steps to follow in case of an emergency
	Make and review a list of phone numbers a first responder might have access to in case of an emergency
	Search “YouTube” on a cell phone and locate a good first responder/first aid video for students to review
	Complete Activity 13.1
	Complete Activity 13.2

Activity 13.1

Questions for backseat observer discussion:

- Describe what to do in case of engine or steering failure
- Explain what to do in case of loss of forward vision due to sandstorms, fog, smoke
- Explain off-road recovery and the hazards associated with making a wrong decision
- Explain how to reduce vehicle damage caused by potholes
- Explain what to do if you enter a curve too fast
- Come up with a plan to escape from a vehicle that is sinking in water
- Develop a list of actions/steps that a driver should take when a collision/crash occurs
- Examine steps for waiting for help and protecting the scene of damage
- Discuss handling failures in the brakes, steering, or the engine itself

Activity 13.2

What would you do? Questions for backseat observer discussion:

List the problem for the situations below:

1. Is there a symbol on the dash that can alert a driver to the problem?
2. Edges of tires are worn
3. Seat belt light and warning is buzzing
4. Ignition key is turned, and starter makes no sound
5. Engine warning light comes on
6. Center of tire is worn
7. Temperature light comes on
8. Alternator light comes on while you are driving
9. Brake warning light comes on while driving

SESSION 14 BTW – OWNING AND MAINTAINING A VEHICLE

Topics Addressed:

- Identify and discuss common maintenance procedures the driver can accept
- Discuss auto insurance and how to determine what type of auto insurance best meets your needs

Description of Suggested Driving Route:

School parking lot, city environment, business district, car dealership, and service station

Supporting Topics for Discussion:

- Power steering fluid
- Washer fluid
- Coolant
- Radiator cap
- Brake fluid
- Oil change
- Air filter
- Hood latch
- Tire pressure
- Overinflated
- Underinflated
- Windshield wipers
- Battery
- Battery terminals
- Jumpstart
- Warranty
- Leasing
- Depreciation
- Policy
- Premium
- Deductible
- Collision insurance
- Comprehensive insurance
- Bodily injury insurance
- Property damage insurance
- No-fault insurance

- Uninsured motorist
- Crash vs. non-crash costs
- Fixed costs vs. operating costs

Fundamental Driving Skills:

- Continue working on driving skills and situations in various driving environments/routes
- While on the road, pull over and demonstrate what to do if your vehicle breakdown

In parking lot:

- Identify how to open and close hood of vehicle
- Identify where to put wiper fluid, coolant, and brake fluid
- Identify battery posts under the hood of vehicle
- Demonstrate how to jumpstart a vehicle

Supporting Learning Activities:

- ***Activities for the Student Driver While Behind the Wheel:***
 - [Instructor's Checklist for Driver's Performance](#)
- ***Activities for the Student Observers:***
 - [Instructor's Checklist for Observer's Participation](#)
 - [Activity 14.1](#)
 - [Activity 14.2](#)
 - [Activity 14.3](#)
 - [Activity 14.4](#)

Supporting Activities for Parents/Guardians to Complete with Their Student Driver:

- Associated Sections of Children's Hospital of Philadelphia "*TeenDrivingPlan*" Practice Guide
- Associated National Safety Council "*DriveitHome*" Pointers for Parents

Assessment Tools:

- On-going Evaluation Sheet
- Student Card Rating Score 5-4-3-2-1
- Skill/Observation Scores
- Ask observers to watch for 2 skill strengths and 2 skill weaknesses that each driver might improve

SESSION 14 BTW SKILLS AND ACTIVITIES – OWNING AND MAINTAINING A VEHICLE

<i>Instructor's Checklist of Driver's Performance - check off the characteristics reviewed and demonstrated on various routes.</i>	
	Can open and close hood of vehicle
	When under hood, driver can identify and explain locations and purposes of oil, wiper fluid, antifreeze (coolant), brake fluid, and power steering fluid
	Finds battery posts under hood and jump starts vehicle
	Execute and explain proper steps to change a tire
	Demonstrate appropriate actions and steps when vehicle breaks down on side of road
	Explain how auto insurance works in NYS: deductibles (ex. \$500 - \$1000), mandatory insurances and suggested insurance types (glass coverage/umbrella policy) to properly cover damage to vehicles, property, or others when visiting a collision center
	Safely fuel up a vehicle when explaining hazards possible to encounter at a gas or service station

<i>Instructor's Checklist for Observer's Participation - discuss and review the following topics with the observers in the vehicle.</i>	
	Identify and discuss the type of services offered at various auto-related stores
	Stop at a gas station and identify hazards that drivers must be alert for when entering and leaving
	Review the signage regarding the prices for fuel posted - cash vs. credit - don't be surprised at the pump
	Discuss the difference between premium, regular and diesel fuels
	Locate places where electric vehicle drivers can charge their vehicle's batteries

	Discuss how to open the various types of fueling doors on a vehicle
	Review how to check fuel levels, oil levels, windshield wiper fluid
	Provided a work page with symbols related to vehicle maintenance alerts - discuss which ones are critical
	Complete Activity 14.1
	Complete Activity 14.2
	Complete Activity 14.3
	Complete Activity 14.4

Activity 14.1

Instructions: Observers should take the opportunity to check the tread depth and pressure of various tires and identify different risks imposed by improper tire tread depth.

- 1. Having already identified various road conditions and terrains during your area drive, observers can check selected vehicles in the parking lot for proper tread depth. This activity should be performed using a Lincoln head penny and observing the amount of the headexposed.**
- 2. Identify vehicles that failed the tread check and discuss the dangers they may face whendriving on different road conditions and in different driving climates.**
- 3. In addition, using the driver education vehicle, discuss and demonstrate how to determine and check the appropriate tire pressure.**
- 4. Use an air pressure gauge to check tire pressure or go to a service station that has air pumps available.**
- 5. Check the owner's manual or inside the door jamb of the vehicle for information on inflation/psi.**

Activity 14.2

Questions for backseat observer discussion:

1. Explain financial responsibility laws
2. Discuss the factors that affect the cost of auto insurance
3. Explain the difference between fixed costs and operating costs
4. Explain the difference between crash and non-crash costs
5. Define four types of auto insurance:
 - liability
 - collision
 - comprehensive
 - personal injury protection

Activity 14.3

Students are to point out where different fluids are used under the hood

Matching:

Fluid Color

1. Brown/black
2. Blue
3. Red
4. Green

Component

- ___ Wiper fluid
- ___ Antifreeze
- ___ Engine oil
- ___ Transmission

Locate the following components under the hood:

1. Battery posts
2. Radiator
3. Windshield wiper
4. Oil stick
5. transmission

Activity 14.4

Observers are provided with a Manufacturers Car Dealers Sheet (MS Listing Page) to discuss the sale of a new and/or used vehicle.

- 1. Recommend stopping on the driving route at a dealership to check out features of a new vehicle.**
- 2. Open hood of the driver ed vehicle and review how to properly jump a vehicle with a dead battery.**
- 3. Check tire depth using the penny demonstration. Identify where information is located on door jamb or glove compartment.**
- 4. Use baby jars to fill various auto fluids. Label each bottle have students identify the fluids.**

SESSION 15 BTW – TRIP PLANNING AND DESTINATION DRIVING

Topics Addressed:

- How to use digital and paper maps to identify a route and plan appropriate stops, such as fuel, food, sleep, as needed
- Discuss using mental rehearsal as a technique to recall directions to a destination
- Discuss the importance of having a plan of action should you become lost and need directions
- Discuss safety concerns and explore possible strategies

Description of Suggested Driving Route:

Rural highway and/or interstate

Supporting Topics for Discussion:

- Navigating
- Global positioning system (GPS)
- Map scale/reading
- Trailer and hitch
- Jackknifing
- Rest/cell phone stops
- Mile markers
- Odometer vs. trip meter
- Ride sharing
- Arterial streets
- Secondary streets
- EZ Pass/transponder
- Recreational vehicles (RVs)
- Safe packing
- Changing tires
- What to do in a breakdown
- Using map apps safely
- How to use paper maps
- Estimated time of arrival (ETA)

Fundamental Driving Skills:

- Continue working on driving skills and situations in various driving environments/routes
- Operating cruise control

- Setting odometer
- Passing a vehicle on left side
- Passing a vehicle on right side
- Maintaining speed limit
- Identifying signage pertaining to exits
- Listening to GPS directions vs. viewing

Supporting Learning Activities:

- **Activities for the Student Driver While Behind the Wheel:**
 - [Instructor's Checklist for Driver's Performance](#)
- **Activities for the Student Observers:**
 - [Instructor's Checklist for Observer's Participation](#)
 - Identify mile markers, advance destination guide signs
 - [Activity 15.1](#)

Supporting Activities for Parents/Guardians to Complete with Their Student Driver:

- Have students look at a map online and plan a short trip to a designated point of interest, such as a family member's home or a grocery store in the area
- Check the pressure of the spare tire and vehicle tires
- Associated Sections of Children's Hospital of Philadelphia "*TeenDrivingPlan*" Practice Guide
- Associated National Safety Council "*DriveitHome*" Pointers for Parents

Assessment Tools:

- On-going Evaluation Sheet
- Student Card Rating Score 5-4-3-2-1
- Skill/Observation Scores
- Ask observers to watch for 2 skill strengths and 2 skill weaknesses that each driver might improve

SESSION 15 BTW SKILLS AND ACTIVITIES - TRIP PLANNING AND DESTINATION DRIVING

<i>Instructor's Checklist of Driver's Performance - check off the characteristics reviewed and demonstrated on various routes.</i>	
	Successful use of the following vehicle features: cruise control, reset the trip meter, and odometer
	Executes safe overtaking and passing of a vehicle on left and right sides when maintaining speed limit
	Executes reading and folding map and following GPS instructions when identifying signage and various distances pertaining to exits
	Determine the number of miles driven and average miles per gallon

<i>Instructor's Checklist for Observer's Participation - discuss and review the following topics with the observers in the vehicle.</i>	
	Identify where there are ATM's, bank drive-ups, fast food restaurants, rest stops - explain what a driver should be alert for and what dangers might be lurking at these locations
	List the type of conflicts that could occur at unfamiliar locations
	Identify free cellular applications (apps) on the cell phone that pertain to trip planning
	Discuss the auto clubs and other services that can help a stranded motorist - AAA, Toyota
	Point out the following signage: "Center Left turn Only Lanes", "No Turn on Red", "Do Not Enter", "Pedestrian Crosswalk Hazards"
	Complete Activity 15.1

Activity 15.1

Steps for backseat observer discussion during trip planning and destination driving:

- 1. Clear trip meter**
- 2. Select four locations to travel to**
- 3. Estimate time of arrival**
- 4. Set GPS for best route**
- 5. Begin trip and identify some landmarks along the way**

SESSION 16 BTW – MOCK ROAD TEST

Topics Addressed:

- Review the components of the NYS road test and review the driving skills being assessed in each component.
- Review the knowledge, skills, procedures, and techniques that apply to each component of the test

Description of Suggested Driving Route:

Mock test - if possible, have four driving environments

Supporting Topics for Discussion:

Review each component of the road test and the criteria the examiner will employ.

Fundamental Driving Skills:

- Continue working on driving skills and situations in various driving environments/routes
- Review the knowledge, skills, practices, and procedures which apply to each test component area

Supporting Learning Activities:

- **Activities for the Student Driver While Behind the Wheel:**
 - [Instructor's Checklist for Driver's Performance](#)
- **Activities for the Student Observers:**
 - [Instructor's Checklist for Observer's Participation](#)
 - [Activity 16.1](#)
 - [Activity 16.2](#)

Supporting Activities for Parents/Guardians to Complete with Their Student Driver:

- Supply parents and students with information on how to schedule a road test, road test procedures, what they will need to bring to the test, and the affidavit of driving practice log
- Associated Sections of Children's Hospital of Philadelphia "*TeenDrivingPlan*" Practice Guide
- Associated National Safety Council "*DriveitHome*" Pointers for Parents

Assessment Tools:

- On-going Evaluation Sheet

- Student Card Rating Score 5-4-3-2-1
- Skill/Observation Scores
- Ask observers to watch for 2 skill strengths and 2 skill weaknesses that each driver might improve
- **Unit Grade** - Total Sessions 13-16 Score Sheets
- [Unit 4 Evaluation Checklist](#)

SESSION 16 BTW SKILLS AND ACTIVITIES - MOCK ROAD TEST

<i>Instructor's Checklist of Driver's Performance - check off the characteristics reviewed and demonstrated on various routes.</i>	
	Explain and execute processes associated with road tests in various environments: residential, business, rural, city, and interstate road scenarios
	Perform correct parallel parking with proper observation, safety, mechanical, and processing skills
	Perform correct 3-point turn/K-turn with proper observation, safety, mechanical, and processing skills
	Perform correct driving and road test skills with proper observation, safety, mechanical, and processing skills when: stopping, accelerating, turning, pulling away/towards curbs, and blind spot awareness
	Explain and execute correct "Right of Way" rules at intersections, crosswalks, and in all driving situations
	Driver demonstrates mastery of maneuvering skills and smooth transitions between various actions
	Driver uses internal commentary driving skills to identify, predict, decide, and execute proper actions avoiding situations that produce conflict or collision/crash

<i>Instructor's Checklist for Observer's Participation - discuss and review the following topics with the observers in the vehicle.</i>	
	Rehearse steps needed to demonstrate proficiency of procedures at a road test
	Observe and identify strengths and weaknesses of the driver that is being tested
	Provide instructor with suggestions on how the testing driver might improve performance
	Understand that the testing driver will be stepping out of the vehicle so that the observers can speak freely about the driver's performance
	Complete Activity 16.1
	Complete Activity 16.2

Activity 16.1

Questions for backseat observer discussion:

1. What do you need to bring to the road test site on the day of your test?
2. Why do you need to keep the test result slip that the examiner provides at the end of the test?
3. If you already have a license, when should you bring the MV285 Completion Certificate from Driver Education to the Department of Motor Vehicles (DMV) to upgrade your license from a Junior license to a Senior license?
4. Why should you make a copy of your MV285 certificate before the road test date?
5. Can you use a copy of the MV285 certificate at the road test site?
6. Do you have to have a parent/caregiver take you to the road test site?
7. What are the driving restrictions that I must abide by in my region?
8. If I fail my DMV test, can I take the test again?

Activity 16.2

PART 1

ALWAYS ALMOST ALWAYS SOMETIMES ALMOST NEVER NEVER

Getting ready to drive

1. Failed to adjust seat properly
2. Failed to adjust mirror properly
3. Failed to secure seatbelt

Starting the engine

1. Failed to check rearview mirror and/or traffic surroundings
2. Began turn from wrong lane
3. Turned at improper speed

Starting the engine

1. Failed to depress the brake
2. Failed to start engine properly
3. Did not allow engine to warm up

Moving the vehicle on level ground

1. Failed to depress brake
2. Failed to select drive
3. Failed to release parking brake properly
4. Failed to yield the right of way

Signaling

1. Failed to signal properly/timely
2. Used wrong signal
3. Used horn improperly, or failed to use it when necessary
4. Failed to check blind spots
5. Failed to give signal when backing

Steering

1. Failed to use good hand control on steering wheel
2. Failed to steer smoothly
3. Exhibited poor steering control (understeering or oversteering)

Right and left turns

1. Failed to signal properly/timely
2. Failed to check rearview mirror and/or traffic surroundings
3. Began turn from wrong lane
4. Turned at improper speed
5. Made turn too wide
6. Cut corners too sharp
7. Didn't straighten wheels in time

Backing

1. Stopped in improper position
2. Failed to check traffic at 4-way
3. Failed to steer correctly when backing up
4. Failed to execute maneuver properly

Speed control

1. Too fast for conditions
2. Too slow for conditions
3. Had to use brake when going around curve
4. In excess of marked speed limits (over by more than 5 mph)
5. Inconsistent speed control (fluctuates)

Traffic positions

1. Failed to drive in proper lane.
2. Straddled lanes
3. Followed other vehicles too closely
4. Failed to give proper signals
5. Failed to check traffic before changing lanes
6. Fading to left or right
7. Tracking problems

Traffic control signs and signals

1. Disregarded traffic signals
2. Drove through red light
3. Failed to observe a warning sign or signal
4. Shows confusion of right of way

Stopping

1. Failed to check traffic
2. Failed to slow down and prepare to stop well in advance
3. Failed to use brake properly
4. Failed to stop in proper position
5. Failed to stop smoothly

Intersections

1. Approached too fast
2. Entered wrong lane
3. Failed to check traffic properly before entering
4. Changed lanes within intersections
5. Didn't yield to pedestrians

Residential and business district driving

1. Failed to recognize visibility problems
2. Failed to recognize space problems
3. Failed to recognize traction problems
4. Failed to time maneuver (choppy transitions)

Interstate/highway driving

1. Failed to signal entry
2. Failed to adjust speed
3. Failed to check blind spot
4. Failed to use mirrors
5. Poor acceleration
6. Poor steering control
7. Improper lane for exit
8. Failed to signal exit

Parallel parking

1. Did not stop in proper position to begin maneuver
2. Failed to turn wheel at correct time
3. Failed to return wheel to left properly
4. Parked too far from curb
5. Struck curb
6. Moved vehicle too fast
7. Struck cones
8. Did not check for proper gear
9. Failed to check rear of vehicle before backing

Angle and perpendicular parking

1. Did not stop in proper position to begin maneuver
2. Failed to turn wheel at correct time
3. Failed to return wheel properly
4. Parked too close to another vehicle
5. Struck curb
6. Moved vehicle too fast
7. Struck other vehicles
8. Did not check for proper gear
9. Failed to check rear of vehicle before backing

Turning around using 3-point turn/K-turn

1. Failure to make complete stop
2. Failed to check blind spots or traffic
3. Failed to signal move
3. Too fast or too slow
4. Failed to look behind when backing
5. Failed to steer correctly when backing up
6. Failed to monitor traffic
7. Stayed calm in the face of waiting traffic

PART 2

Observation and planning

1. Difficulty with concentration/attention
2. Difficulty with organization/planning confidence
1. Lack of confidence
2. Nervous or hesitant
3. Overconfident

Attitude

1. Exhibits denial
2. Uncooperative
3. Aggressive

Cognitive skills

1. Difficulty with problem solving
2. Exhibits confusion
3. Lack of carry-over of instruction
4. Difficulty with memory

Unit 4
(Sessions 13-16)
BTW SKILLS – ASSESSMENT CHECKLIST

Assess the characteristics reviewed on various routes using 5-4-3-2-1 (5=Excellent to 1=Poor)

Emergency Response and Recovery	
	Explains dangers/consequences of driving at high speeds in the following environments - ice, snow, wet, gravel roads and hydroplaning
	Executes and explains driver responsibilities and the safety of passengers, vehicles and property
	Executes proper “pull-over protocol” and explains “do’s and don’ts” when complying with requests from law enforcement when performing a mock “police pull-over”
Owning and Maintaining a Vehicle	
	Can open/close hood of vehicle, when under hood identifies and explains locations and purposes of - oil, wiper fluid, antifreeze (coolant), brake fluid, and power steering fluid
	Demonstrates appropriate actions and steps when vehicle breaks down on side of road
	Safely fuels up a vehicle and explains possible hazards at gas or service stations
Trip Planning and Destination Driving	
	Executes safe overtaking and passing of a vehicle on left and right sides when maintaining speed limit
	Executes reading and folding map and following GPS instructions when identifying signage and various distances pertaining to exits
	Determines number of miles driven and average miles per gallon
Mock Road Test	
	Explains and executes processes associated with road tests in various environments - residential, business, rural, city, and interstate road scenarios
	Performs correct parallel park with proper observation, safety, mechanic, and processing skills

