# **Chapter 11 - Lesson Plans and Activity Directions**

Title: PowerPak

# **Concepts:**

11.1 Railroad Crossings

11.2 Motorcycles and Trucks

11.3 Preventative Maintenance and Driving Green

11.4 Organ Donations

11.5 Traffic Stops

**Prerequisites**: Participation in previous sessions, successful completion of assignments, and 80% or better on Chapter 1 and 2 exit exams.

**Note:** The concepts contained in this chapter may be assigned and presented to learners in whole or in part, at any time during or after Chapter 3.

**Participant Activities/Objectives** 

Time: 2.5 hours

**Teacher Activities** 

11.1 Railroad Crossings Time: 20 minutes Objectives

#### **Required Equipment, Lesson Resources and Support Materials:**

- NDRPC 2014 DVD Interface, computer, projector, screen, and speakers
- Chapter 6 Lesson Plans and Activity Directions, and Overview Notes
- NDRPC 2014 Playbooks
- Driving Green Challenge and Key
- Ticket to Concept 11.4 Key
- Chapter 11 Exit Exam & Key

<ul> <li>The learner will be able to describe the unique dangers of rate.</li> <li>The learner will demonstrate searching and space management problems from occurring.</li> <li>The learner will be able to explain which direction you should tracks with a train approaching.</li> </ul>	nent techniques needed to prevent
<ul> <li>Stay Alert for Railroad Tracks</li> <li>Begin this lesson by asking</li> <li>Is a railroad crossing an open, closed, or unstable zone condition?</li> <li>What type of traffic control devices will you find at these intersections?</li> <li>Video PSA: Stay Focused</li> <li>Launch video. Lead learners in discussion about the risks of railroad crossings and how they could avoid the traps of distractions.</li> </ul>	Answer questions.  Participate in discussion.
Signs, Signals, and Markings Ask learners:  • What is the meaning of a Crossbuck sign or pavement marking?	Participate in discussion.

Operation Lifesaver Video: Look to Live	
Launch video. Pause as needed for discussion. Have them	Watch video.
explain what to do if their car stalls on the tracks. Explain which	
way to run if a train is approaching and why. (Move quickly	
away from the tracks in the direction from which the train is	Explain what to do if their car stalls on
coming. If you run in the same direction the train is traveling,	the tracks, and which way to run if a
when the train hits your car you could be injured by flying	train is approaching and why.
debris.)	
Protect Yourself and Others	Describe where to stop at a railroad
Operation Lifesaver Video: Imagine	crossing.
Launch video and pause as needed. Following the clip, have	
learners describe proper stopping locations and demonstrate	Demonstrate proper searching pattern
proper searching pattern needed when approaching and prior to	used to approach and prior to crossing
crossing tracks.	this intersection.

# 11.2 Motorcycles and Trucks

# Time: 30 minutes Objectives

- The learner will recognize and cooperate with other roadway users, understanding the need to develop awareness of size and speed differences.
- The learner will be able to explain how to interact safely with motorcycles and trucks.

Interacting With Motorcycles	
PPT with Videos: Sharing the road with motorcycles	Explain how to search for and interact
Launch PPT. Help learners connect space mangement principles	with motorcycles.
while interacting with motorcycles.	
Sharing the Road With Trucks	
<b>Federal Motor Carrier Safety Administration Video:</b> The Unsafe	
Driving Acts of Motorists	Describe the No Zone.
Launch video. Guide class discussion by asking learners to	
describe the No Zone. Connect to previous lessons regarding	Discuss ways to avoid problems when
space management stratagies and principles used to operate a	driving in the vicinity of large vehicles.
vehicle in the vicinity of large trucks.	
Space Management Strategies	Recall space management principles
Lead discussion on space management around large trucks:	used when passing, timing side zones,
timing side zones, passing and being passed, following time and	and following time needed when
space, etc.	interacting with trucks.

# 11.3 Preventative Maintenance and Driving Green

# Time: 40 minutes

# **Objectives**

- The student will recognize the responsibility shared by users of the highway transportation system and the need to pay attention to their role as user and consumer a primary concern when operating and maintaining a vehicle while keeping environmental issues in mind.
- The student will learn how various systems operate and how to maintain them.

Going Green	
Begin this lesson by asking learners if anyone's family has a	
"green" vehicle. Ask if they know what type, gas mileage, etc. to	Share information with the classmates.
begin a discussion on the advantages and disadvantages of	
"green" cars.	
Direct learners to the first page of Homework Assignment 11.3	
and have them share their findings regarding the cost of	Tell what the cost of transportation is
transportation in their area. (Learners should have completed	in their area.
this part of the worksheet as they did their pre-assigned reading	

assignment.)	
Vehicle Maintenance	
Lead discussion on the cost-saving benefits of keeping a vehicle	Answer questions.
well maintained.	
Launch student video "simple maintenance tips" from the play	Watch video.
button located on the mid-page photo.	
Simple Ways to Save Fuel	
Begin discussion by asking learners what they might do to save	
on fuel.	
Launch Video: Green Driving Tips	
importance.	
<b>Driving Green Challenge:</b> Break into teams of 4 to 6. Direct	Participate in Driving Green Challenge.
learners to the second half of HA 11.3 Driving Green Challenge -	
Drive Smart, Maintain & Save. Pass out the Driving Green	Share answers with the class.
Challenge (Titled: WS 11.3 - Maintenance and Driving Green	
Challenge). Give teams 10 minutes to complete the challenge.	
Then they will share answers or challenge another team to	
answer. Correct answers are worth 2 points each. The team with	
the most points wins.	
11.4 Organ Donations	
Time: 30 minutes	
Objective	
	ntions for becoming an organ denor
The learner will be able to describe the importance of and o	ptions for becoming an organ donor.
<ul> <li>The learner will be able to describe the importance of and o</li> <li>Ticket to Concept 11.4</li> </ul>	ptions for becoming an organ donor.
<ul> <li>The learner will be able to describe the importance of and o</li> <li>Ticket to Concept 11.4</li> <li>Lead class through a self or peer evaluation of responses to</li> </ul>	ptions for becoming an organ donor.  Evaluate responses to E-Ticket 11.4.
<ul> <li>The learner will be able to describe the importance of and of         Ticket to Concept 11.4         Lead class through a self or peer evaluation of responses to         questions using Ticket to Concept 11.4 Key. Allow students to</li> </ul>	
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<ul> <li>The learner will be able to describe the importance of and of Ticket to Concept 11.4</li> <li>Lead class through a self or peer evaluation of responses to questions using Ticket to Concept 11.4 Key. Allow students to keep for future reference.</li> <li>Drive Safe, Be Free, and Stay Well Always - But, What if</li> </ul>	Evaluate responses to E-Ticket 11.4.  Get motivated, be respectful.
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Ticket to Concept 11.4  Lead class through a self or peer evaluation of responses to questions using Ticket to Concept 11.4 Key. Allow students to keep for future reference.  Drive Safe, Be Free, and Stay Well Always - But, What if Launch video. Answer questions. Clarify any misunderstandings.  A Few Facts  Launch video "It's Your Choice - Donate Life"  Class Discussion: Share with a partner, and then discuss as a class your thoughts and opinions about organ donations.  Allow learners to share personal opinions freely. Answer questions.  Talk To Your Family  Homework: Discuss and share your wishes about organ donation with your family tonight. Lead discussion on the importance of making your own decisions, informing family members, and requirements for consent.	Evaluate responses to E-Ticket 11.4.  Get motivated, be respectful. Participate in discussion. Ask questions.  Watch video.  Participate in class discussion.  Share opinions.
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• The learner will be able to describe the necessary responses and responsibilities when interacting with Law Enforcement Officers and demonstrate how to interact courteously during a traffic stop.

An Officer's Job	
Begin this lesson by asking learners what they think an officer's	
job really is.	Share past experiences with law
Think, Pair, Share Activity: Have students share with a partner	enforcement.
any experiences they have had with traffic stops.	

Launch video "The story of one officer"  Reinforce the need to value and respect police officers and the difficulties they may have keeping the peace, protecting the public, and enforcing the law.	Participate in discussion.
You Could Get a Ticket	
<b>Consider This:</b> What are some reasons a police officer might pull someone over and possible outcomes?	Participate in discussion.
Managing a Traffic Stop & Nighttime and Passengers	
Launch video "The Routine Traffic Stop"	
Role Play Activity: Have students practice how to respond to an	
officer during a traffic stop. Ask for 3-5 learner volunteers at a	Watch video.
time. Assign one the role of officer, another to be the motorist,	
and the others to be passengers. Give them one scenerio at a	
time. Ex: to the motorist - you are pulled over for speeding, not	
signaling for a lane change, weaving in your lane, etc. What	Participate in discussion and role play
actions should you take? How does an officer approach your	activity.
vehicle and why? How do you move and act as the officer	
approaches. What questions might he/she ask? You are pulled	
over at night for running a yellow/red traffic light.	
Chapter 11 Exit Exam	
Administer exam, collect and correct.	Learners take chapter 11 exit exam.
Wrap Up and Adjourn	
	Estimated Time: 2.5 hours

**Assessments:** Learner may complete Ticket to Concept 11.4 and demonstrate accountability for completing chapter reading assignments. Learner will answer informal questions, and participate in class discussions, demonstrations, and activities. Learner may complete Chapter 11 Exit Exam with a minimum score of 80%.

# **Student Assignments**

- Discuss and share your wishes about organ donation with your family
- Optional Independent Activity Vehicle Maintenance

# 11.3 Preventative Maintenance - Activity Directions

Optional Independent Activity - Vehicle Maintenance		
Name:	Date:	
	or someone designated by your parent or guardian, check for proper tire inflation. Check listed fluid levels e teacher by the date assigned.	•
Check Fluid Levels and Fill Oil		
☐ Water		
☐ Brake Fluid		

# **Change a Tire**

Date: _	Signature: Relationship to Student:
and che	ecked required fluid levels.
I certify	that changed a tire using the procedures as directed above
	Check for proper tire inflation in all tires.
	wheels.
	Store the tire-changing equipment in the trunk or storage area and remove the blocks from the
	Replace the hub cap and lower the car the rest of the way.
	Once you think they are all tight, make one final check of each lug nut or bolt with the wrench.
	Tighten firmly all the lug nuts or bolts, with the wrench, in a crisscross pattern.
	Lower the jack until the tire is in contact with the ground, but not fully lowered.
	Tighten two of the lug nuts or bolts on opposite sides of the wheel firmly with the wrench.
	Put on the spare tire, replace the lug nuts or bolts, and tighten each at least four or five turns by hand.
	Always keep yourself in a position to be able to get away quickly in case the car starts to fall.
	fender where they could be caught while removing or replacing the tire and lugs, should the car fall.
	Be careful not to get your hands in a position between the ground and the tire or the tire and the
	Remove the lug nuts or bolts and pull off the wheel.
	If car is not stable, do not remove the tire; let the car down and jack it up again until it is stable.
	side to side.
	Check the stability of the car once the wheel is off the ground by gently rocking forward and back and
	Jack just enough so tire clears ground.
	Jack slowly as wheel begins to lift off the ground.
	Make certain the jack is straight.
	Use the jack to raise wheel off ground. (Check the car manual for specific jacking instructions.)
	Loosen the lug nuts or bolts slightly with socket wrench or tire-changing (lug) wrench.
	Pry off hub cap with jack handle or screwdriver.
	Remove all tire-changing equipment and spare tire from trunk or storage area.
	which the tire is to be changed.
	Block both wheels at front and back of tires with boards or bricks at the opposite end of the car from
	Set parking brake firmly.
	Check that automatic shift car is in park or standard transmission car is in low or reverse.

Return this signed worksheet to the teacher by the date assigned.