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ABSTRACT

A standardized and comprehensive school bus driver instructional program has been developed under contract with the Federal Government. The course has been organized to provide in one package a program for developing the minimum skills and knowledge needed by the school bus driver instructor, as well as those supplemental skills and knowledge which the proficient driver might require. This manual consists of core materials presented in five units containing both classroom and in-bus instruction. These units cover an introduction to the school bus driver role and responsibility, and topics dealing with passenger control, accidents and emergencies, bus maintenance and inspection, and driving fundamentals. The emphasis in all of the course materials is on those aspects of driving a school bus which are different from those for driving an automobile or critical for the safe operation of the pupil transportation system. (Author/MLF)

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SCHOOL BUS DRIVER INSTRUCTIONAL PROGRAM

instructor's guide



NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION WASHINGTON, D.C. 20590

June 1974





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INTRODUCTION TO INSTRUCTOR'S GUIDE

The overall purpose of the course is to provide in one package a program for developing the minimum (core) skills and knowledge needed by the school bus driver, and those supplemental (or advanced) skills and knowledge which the proficient driver might require. The core materials are presented in five units containing both classroom and in-bus instruction. In these units you will cover the following topics:

Introduction to School Bus Driver Role and Responsibility

Passenger Control

Accidents and Emergencies

Bus Maintenance and Inspection

Driving Fundamentals

The eight advanced units also require classroom and in-bus instruction. The topics you will cover are:

Emergency Driving Techniques

First Aid

Field Trips

Transporting Exceptional Students

Detecting Hazards

Controlling the Position of the Bus

Driving Under Special Conditions

Preventive Maintenance of the Bus

The emphasis in all of the course materials is upon those aspects of driving a school bus which are (a) different from those for driving an automobile, or (b) critical for the safe operation of the pupil transportation system.

As an instructor you will have nearly complete control over the class-room and practical activities covered in this course. Thus, the success of the School Bus Driver Instructional Program depends on your efforts. If you conscientiously present the CONTENT and exercises in the Instructor's Guide and stick to the principles in the Course Guide, your course graduates will be safer and more effective school bus drivers.



Contents of the Instructor's Guide

This Instructor's Guide is divided into the thirteen units listed above. Each unit contains the following:

- 1. A Table of Contents.
- 2. A statement of the Objectives for the trainees.
- 3. A complete textual outline of the necessary CONTENT material the trainees must learn to accomplish the objectives.
- 4. Complete INSTRUCTOR GUIDELINES. These guidelines tell you what to emphasize in the CONTENT, where to focus on local characteristics of the pupil transportation system, how and where to encourage trainee participation, and where to provide the trainees with feedback.
- 5. Unit Review Questions.
- 6. Answers to the Unit Review Questions (presented in a block at the end of the Core and Advanced Units).

The Trainee Study Guides are designed for use by the students as a pre-class assignment, as a textbook/notebook during instruction and a reference book after instruction. They contain the same CONTENT as the Instructor's Cuide, except instead of the INSTRUCTOR GUIDELINES, a column has been left for NOTES.

Preparation

This School Bus Driver Instructional Program was built to be as flexible as possible (i.e., it was designed to be usable by all states and school districts.) To be useful for your school district, units will have to be selected and customized materials prepared to satisfy your state or local needs. Detailed instructions for selecting units and customizing materials are presented in the Course Guide. Before conducting any classes you should completely familiarize yourself with the Course Guide and with the CONTENT and INSTRUCTOR GUIDELINES in this Instructor's Guide. Specifically, you should:

- 1. Review the Objectives in the Course Guide (Table 1) for each unit you will be teaching. (Remember, although you may know of many other things you'd like to cover, presenting just enough instruction to teach the Objectives requires a fairly lengthy curriculum.)
- 2. Study the Review Questions at the end of each selected unit of this *Instructor's Guide*. (The answers are given



in blocks at the end of the Core and Advanced Units.) You will want to cover material in class at a sufficient level of detail that students can achieve the criterion performance level indicated for each unit.

- 3. Review the INSTRUCTOR GUIDELINES and CONTENT of this Instruc->
 tor's Guide for all units you have selected. Make sure you
 understand and are prepared to implement all of the instructional activities described in the INSTRUCTOR GUIDELINES.
 Make sure you fully understand how the CONTENT relates to
 the Objectives and Review Questions.
- 4. Determine the Instructor Resources you will need for each unit you are going to teach. (These are listed in Tables 2 and 3 of the Course Guide.) If the resources have not already been gathered, you should acquire all of the necessary equipment and reference material and prepare the necessary handouts and media before you begin teaching. (You'll notice in Tables 2 and 3 that some of the media, films, etc., are optional. Descriptions and suppliers of the films are listed in the Audiovisual Directory attached to the Course Guide.)
- 5. Customize the Units. Many of the Resources in Tables 2 and 3 of the Course Guide are needed to customize the materials to satisfy local needs. As you identify these materials you should adapt the CONTENT sections of this Instructor's Guide to reflect any necessary changes, additions, or deletions.
- 6. Prepare the schedule. Follow the instructions on pp. 18-22 of the Course Guide and prepare the schedule of classes. Distribute the Trainee Study Guides before conducting the classes if you have decided to make the study guides a preclass assignment.

Teaching the Units

You should read the guidelines on pp. 23-25 of the Course Guide. They detail some of the important points for successfully conducting this program. Remember, students don't learn very well from a straight lecture. Use the blackboard, slides, films, model buses, etc. Encourage students to participate in discussions. Have the trainees work the exercises that are spaced throughout the units. Provide them with feedback--tell them how they're doing.

Your efforts in instructing these materials will go a long way toward helping realize the goal of improved safety in the pupil transportation system. Good Luck!



CORE UNIT A

INTRODUCTION TO SCHOOL BUS DRIVER ROLE AND RESPONSIBILITY

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OBJECTIVES

By the end of this unit, the students should be able to:

- 1. Describe the responsibilities of members of the Pupil Transportation System.
- 2. Describe the requirements for selection and licensing of school bus drivers.
- 3. Identify how emotional and physical characteristics affect the driver's tasks.



Refer to Figure 1 on p. 4

after trainees have read
entire OVERVIEW. Substitute
your own organizational
chart, if more appropriate.
Explain the relationship
among departments, including
bus contractors, if applicable.



Encourage positive attitude by emphasizing trainees' importance.

CONTENT

Before you get behind the wheel of a school bus, there is a great deal you need to know about yourself, your responsibilities, and those with whom you work.

The transportation of pupils to and from school is a necessary part of an educational program. Competent school bus drivers and standard operation of buses must be realized if a safe, efficient, and economical transportation program is to be realized.

Learning to drive a vehicle the size of a school bus is a difficult task, involving knowledge of related information, visual skills, judgments, decisions and accurate responses. The way in which you Learn to perform this sort of task will have a marked effect on your on-the-job performance.

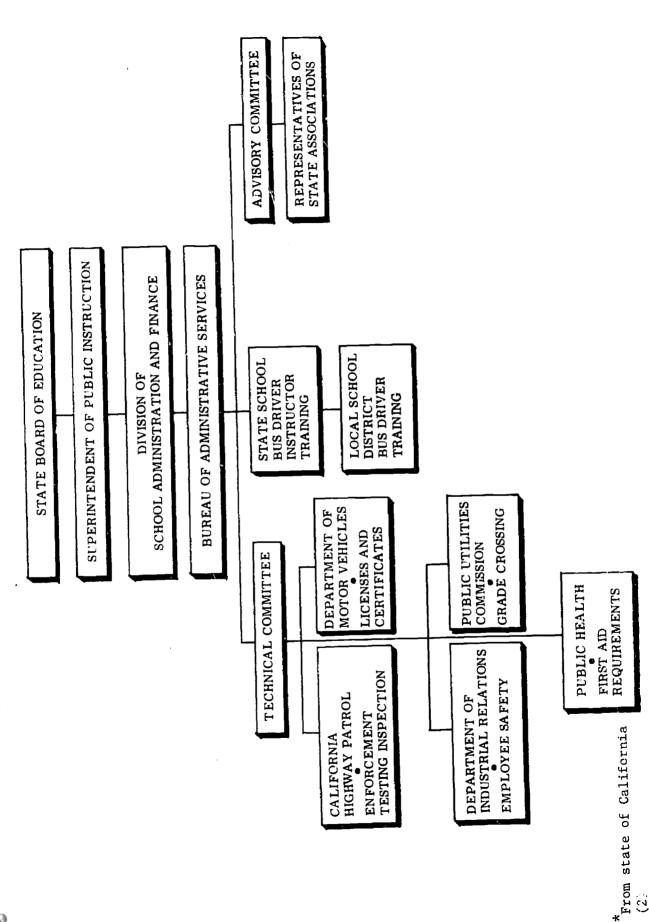
1. You are important.

It is evident that You, the school bus driver, are a very important person with a responsible part to play in our educational system. In most instances, you will be the first representative of the school system to meet the children in the morning and the last to see them at night. While the children are on the bus, their safety is in your hands.

2. You are responsible.

Like the captain of a ship, the school bus driver is responsible for efficient and economical operation, for the safety of passengers and the vehicle, and for good order and discipline; in short, for operating a "happy ship." You can successfully accomplish this assignment and be respected and appreciated as a person who is





Sample Stale Organizational Chart for the Supervision of Pupil Transportation Figure 1.



CONTENT

performing a difficult and necessary service. You are in a position to have a large influence on a child's attitude toward school.

3. You are a member of the "safety team."

Perhaps in no other area of education does a local board of education or school administrative staff accept more responsibility for student life and welfare than during the mass movement of children in school transportation vehicles on the public highways, streets, and roads of your state. Therefore, as a member of the "safety team," it appears essential not only to provide adequate equipment, but to constantly strive to improve operational

In the core level of this course you'll cover five units:

safety and efficiency.

- A. Introduction to School Bus Driver Role and Responsibility
- B. Passenger Control
- C. Accidents and Emergencies
- D. Bus Maintenance and Inspection
- E. Driving Fundamentals

NOTES:

OPTION:

Show the movie "Caution--Valuable Load" to overview school bus driver's job. See AV Directory (12).

Refer to Figure 2. Prepare brief job descriptions for each and show how responsibility is delegated. Have trainees fill in figure as you explain. Answer any questions. Use flipchart or overhead transparency to show chain of command.

Have trainees read Figure 3. Explanatory remarks are included on the pages following the figure.

wнo	AREAS OF RESPONSIBILITY
Pupil Transportation Director	
Supervisor	
·	
Driver	
Auviliary Parsonnel	
Auxiliary Personnel (mechanics, etc.)	



Figure 2. Chain of Command

YOUR WORK *

YOUR RESPONSIBILITY	Safety and efficiency in operating a school bus to transport precious lives daily requires dedicated personnel. The health, safety, and welfare of students is at stake.	
YOUR EMPLOYER The school district (or private contractor has responsibility for hiring you and making sure you carry out your responsibility.		
YOUR SUPERVISOR	You as a bus driver need to cooperate with and exhibit loyalty to your supervisor. You must use equipment properly in regard to safety of all persons and other vehicles at all times and in all places.	
YOUR PASSENGERS	You should have sympathetic understanding of problems, moods, and individual differences of students.	
PARENTS	Your communication to parents, knowledge of school policy and bus safety rules promotes a cooperative state of mind that will build safety habits in a child.	
YOUR FELLOW EMPLOYEES	You must have sincere respect of others and be cooperative in your relationship to those with whom you work.	
YOUR SELF	You must be sure you're in the proper physi- cal and mental condition to conduct a safe tripevery day.	
YOUR VEHICLE	· · · · · · · · · · · · · · · · · · ·	
YOUR PUBLIC	I WAY YOU GRIVE, FAIK, AND LOOK, YOU ARE A	

^{*}Adapted from state of Michigan (7)

Figure 3. You and Your Work



YOUR WORK-A WORD OF EXPLANATION*

INSTRUCTOR GUIDELINES	CONTENT
	YOUR RESPONSIBILITY
	A professional school bus driver must be willing to accept responsibility.
	When you drive a busload of children to school every day in all kinds of hazardous highway and weather conditions, you are charged with a grave responsibility.
	Just like a ship's captain or an airline pilot, precious human lives depend upon your experience, skill, judgment, and attitude.
	The vital link to safety, proper driver attitude, knowledge, and skill, is not just acquired but must be developed through your interest in safe driving. Not only with intensive pre-employment training but with continual in-service activities do you upgrade your ability to cope with the constantly changing driving environment. You must be constantly re-evaluating your driving technique.
Explain employer/employee relationship, depending on whether school district or a private contractor does the hiring. Who has responsibility for training, job follow-up, observation, inservice meetings, etc. Explain discipline procedures	YOUR EMPLOYER
with principal (or other employer).	YOUR SUPERVISOR
	Someone in your school district or company is assigned the responsibility of supervising you as an employee. He is another member of the "safety team" * Adapted from state of Michigan (7)

CONTENT

Provide specific examples from local experience.

and is vitally interested in the safety of your riders as well as efficiency and economy of operation. He needs your cooperation. You must be willing to:

- 1. Accept responsibility.
- 2. Accept authority.
- 3. Exhibit interest in employment assignments
- 4. Learn and accept training continuously.
- 5. Carry out assignments completely and cheerfully.
- Gain a working knowledge of written school policy.
- 7. Communicate with your supervisor.
- 8. Communicate and discuss problems of discipline, condition of bus, condition of highway, changing conditions of various stops for pick up and discharge of passengers with your supervisor.

Communications are best done in writing, rather than via verbal requests.

YOUR PASSENGERS

You may establish a positive relationship with your passengers that no other school person does.

Your passengers' conduct will depend a great deal on what you say or do.

- 1. You should greet passengers in a friendly manner.
- You should use reasonable discipline procedures.
- You should recognize that students growing up are in a state of physical change and emotional unrest.



Provide one example of No. 3, 4, 6, or 7; passenger control and conduct is covered in Core Unit B.

Also, emphasize that the bus driver is an example to the students (particularly high school students who are or will be learning to drive). Does he use seat belt, if provided? Does he call out abusive names to other drivers who pull out unexpectedly? Does he show skill as well as courtesy?

Provide 2 or 3 specific examples from local experience for No. 2, 5, 6, or 7. Draw on experience of veteran bus drivers.

CONTENT

- 4. You should realize that the average student wants to be treated <u>fairly</u>, equally, and as an adult.
- 5. Most of your students desire recognition of their good traits and abilities.
- You must maintain a businesslike yet friendly relationship with all students.
- 7. You should compliment good conduct, abilities, habits, dress, good deeds, etc., of your passengers.

PARENTS

Most parents are vitally concerned with the safety of their children and will be a positive force in assisting you with problems on the bus. Occasionally through lack of information or misunderstanding, some parents may react negatively. Learn how to properly inform and work with parents.

- Your discussion concerning a school official or school policy with distraught parents should be done without malice.
- You should not repeat rumors or idle gossip but rather communicate facts to proper authorities.
- 3. You can impress upon parents that they have the responsibility to have children at the bus stop on time.
- 4. You have a responsibility to the parents and your riders to be on time, courteous, and cooperative.



CONTENT

Caution trainees that they can't change rules at parents' or students' suggestion, but they can pass suggestions on to supervisor.

- 5. You shall exercise maximum safety by practicing and displaying good and proper driving at all times.
- 6. You should be receptive to parents' and students' suggestions that contribute to the orderly operation of your bus.
- 7. You should recognize when you need assistance from school officials in solving parent, passenger, or driver conflicts.
- 8. Parents should realize that passengers are expected to sit, be reasonably quiet without causing a disturbance throughout the bus ride.

YOUR FELLOW EMPLOYEES

The people with whom you work usually desire the same courtesy and friendliness that you do. You can help to make their job, as well as yours, a rewarding experience.

- 1. Be courteous at all times.
- 2. Be helpful to other school employees.
- 3. Aid other drivers in checking out lights and use proper driving practices in the area of other buses.
- 4. Cooperate to promote a congenial working environment by refraining from personal attacks, but rather compliment good work and deeds.

YOURSELF

No one knows "the real you" as well as you do.

Therefore, it is important that you honestly evaluate



INSTRUCTOR GUIDELINES	CONTENT
	yourself to be sure that you are physically and men- tally prepared for driving your bus.
	 You must be sufficiently rested to be free from fatigue.
Make note that "regular medicines" e.g., cold tab-	2. You must be free from adverse effects of drugs, medication, or alcohol.
slow down reaction time.	 Your personal appearance, grooming, and language must be acceptable within your community.
	4. You must exhibit the mature mental adjust- ment and emotional stability needed to cope with unexpected and unusual situations.
	 You must have interest in the welfare and needs of others.
	 You must be willing to <u>practice</u> patience and understanding.
	YOUR VEHICLE
	Your bus is a special vehicle. It is expensive and designed with many special safety features to protect the children you transport. You must be sure that
	your bus is kept in safe conditionready to do the job.
Discuss which type vehicle trainees will be driving.	1. Type I:*
trainees will be driving.	Any motor vehicle with motive power except a trailer, used to carry more than 16
	pupils to and from school. This definition includes vehicles that are at any time used to carry school children and school personnel exclusively, and does not include
	*From NHTSA Standard 17 (13).

CONTENT

vehicles that only carry school children along with other passengers as a part of the operations of a common carrier. Must meet identification and equipment requirements.

2. Type II:

Any motor vehicle used to carry 16 or fewer pupils to or from school. This does not include private motor vehicles used to carry members of the owner's household.

Must meet same identification requirements as Type I, or must have no identification or operable equipment, such as stop arms, etc.

3. Warning Signal System--4-light or 8-light system:

Indicate which warning signal system your buses have:

- 4 light--flashing red only or
- 8 light--flashing amber and flashing red

Explain which flashing warning signal system is used on the buses they'll be driving, how it works, and when to use it.

YOUR PUBLIC

Public relations is the opinion people have of us individually, of us as a part of our school system, and of the school system itself.



INSTRUCTOR GUIDELINES	CONTENT
INSTRUCTOR GUIDELINES	DONTENT 1. Courtesy By the way you do your daily job, you each contribute favorably or unfavorably to public relations. The careful, courteous driver makes good impressions. The careless, thoughtless driver creates harmful impressions. For example, if you weave in and out of traffic, you attract more unfavorable attention and more comment than the driver who observes proper lane usage and conforms to speed limits. One discourteous, irresponsible act reflects an unfavorable image on other members of the pupil transportation team. Each driver is important in the public relations picture. Give thought for a few moments to these facts: a. Each driver represents his school system before the public. b. How you act is reflected in public opinion on school matters. c. Drivers in running their daily routes have more contact with the public than
	does any other school group since: (1) Large numbers of student riders are involved.
Give example of courtesy, e.g., pulling over at an appropriate spot to let	(2) Large numbers of motorists view the school buses.
other motorists pass.	d. Observers expect proficient driving, take good performance for granted, and

performance.

are usually quick to complain of poor

CONTENT

Don't go into too much detail here. Passenger behavior and control is discussed in detail in Core Unit B.

Emphasize that laws work to help you by controlling the orderly movement of traffic.

2. Performance

You should learn to call every student who rides your bus by his first name. Your expression of interest in each child will assist you in gaining the confidence of your riders—and their parents.

3. Communication

You should talk to the individual rider, explain requirements to him and secure his cooperation as a follow-up to group instructions. This type of communication between driver and passenger should be a constant activity. Help passengers to understand and voluntarily follow what is generally considered to be normal and proper behavior on the school bus.

4. Enforcement Officers

You should consider enforcement officers part of the "safety team." Their job, as well as yours, is to assure safety on the highways. Their authority and experience may be invaluable to you.

5. Attitude

Building desirable public relations is a continuous process. It depends much on the attitude each one brings to his work each day. The driver who is proud of his part will not intentionally hurt his system's reputation; he will add to it.

This sustains public relations—the good opinion of the public and of fellow workers.



INSTRUCTOR GUIDELINES CONTENT The term "public relations" is misleading because it suggests good relations with only the public. But good relations within one's organization are essential, too. Public relations begins with fellow drivers, teachers, principals, supervisors, the superintendent, and Board of Education members. An organization whose members have mutual friendliness, interest, and respect has met a major requirement of good public relations. Add any comments you feel NOTES: are relevant to Public Relations.

SELECTION OF THE SCHOOL BUS DRIVER*

INSTRUCTOR GUIDELINES	CONTENT
	Many persons are selected as new school bus drivers each year. Local school districts and/or private contractors have the responsibility of hiring drivers based on their local recruitment and selection policies.
Explain local selection procedures in general. Detailed requirements are discussed later.	NOTES:
9	* Adapted from state of Michigan (7)

ERIC

*Full Text Provided by ERIC

FEDERAL STANDARDS FOR DRIVER SELECTION

INSTRUCTOR GUIDELINES

Emphasize that Federal Standards are minimum standards—each state and local district supplies more specific regulations. You will be explaining these later.

Indicate whether your district/company is subject to these regulations. If so, summarize them in brief, and have trainees take notes.

CONTENT

An excerpt from Standard 17 on Pupil Transportation Safety, of the Highway Safety Program, states that:

Every person who drives a Type I or Type II school vehicle occupied by school pupils shall, as a minimum:

- Have a valid state driver's license to operate such a vehicle(s);
- Meet all special physical, mental, and moral requirements established by the state agency having primary responsibility for pupil transportation; and
- 3. Be qualified as a driver under the Motor Carrier Safety Regulations of the Federal Highway Administration 49 CFR 391, if he or his employer is subject to those regulations.

NOTES:

ERIC

Full Text Provided by ERIC

INTERPRETATION OF FEDERAL STANDARD 17*

INSTRUCTOR GUIDELINES	CONTENT
	DRIVER SELECTION
	1. School vehicle drivers should be in good physical condition, of good character, skilled in the operation of their vehicles and in personal relationships with the children they carry. They should be people with morals above reproach, even in temperament, have the ability to adjust to the varying conditions of their job and with positive attitudes toward safety. Their traffic records should be free from arrests, crashes, and warning notices for a period of at least three years.
	2. Because the bus driving job is generally a part-time job, the population from which drivers can be selected is limited to those who can leave their regular daily activities for several hours in the morning and again in the late afternoon. Each person applying for a bus driving position should complete an application blank which asks for at least the following information:
	 a. Name and address of the applicant. b. Education and special training. c. Driving record. d. General physical condition. e. Armed service record.
•	f. Personal and business references. 3. A personal interview followed by a series of tests to determine temperament, knowledge, and
	*From NHTSA Volume 17 (12)



CONTENT

attitude for the job, should be given. A physical examination should be mandatory. The administrator should be sure that the physician understands the qualifications for the bus driving job and can answer yes to the question, "Is the applicant physically qualified in every way to perform the work of a school bus driver?" The examination should include but not be limited to tests for:

- a. Vision deficiencies including tests for glaucoma, depth perception, and presence of cataracts.
- b. Tuberculosis.
- c. Hypertension.
- d. High blood pressure.
- e. Overweight.
- f. Diabetes.
- g. Use of drugs (including alcohol).
- 4. A road test in the school vehicle should be given which includes maneuvers difficult enough to test the driver's ability and should be given over a standard route with a standard scoring procedure. The results of the road test should be used as a preliminary step in planning a good training program for this driver.
- 5. No person over the age of 65 should be hired to drive a school bus. Those who reach the age of 65 while employed as drivers may be permitted to drive as long as health and operating skills permit. Physical examinations for

CONTENT

Refer to Figure 4. You supply the brief description of each physical characteristic and the specific requiement as controlled by your state law and/or local policies. Have trainees name specific effect on driving of temporary or chronic impairment of any of these physical characteristics. Confirm the effects they name and add any they leave out. Lead discussion.

drivers over 65 should be required more frequently than for younger drivers. At least every six months is recommended.

6. Unsatisfactory drivers should be rejected.

For example, those with a bad driving record or where there is evidence of bad moral character within the last three years.

Ask trainees what things they expect to learn and what questions they have. Provide one or two discussion questions on the role of a school bus driver. Lead discussion.

OPTION:

Show film, "Chrome Yellow: Extra Caution." See AV Directory (16).

Administer Core Unit A
Review Questions, Part 1.
Provide the specific requirements as they apply in your state or district. Be sure to tell them when an item does not apply in your state or district. Have trainees take notes. Lead discussion and answer questions as part of feedback session. Provide review, if necessary.

Administer Review Questions, Part 2. Provide feedback. Provide further review for trainees who don't meet criterion. C ... DISCUSSION QUESTIONS



` _			
	CHARACTERISTIC	SPECIFIC REQUIREMENT	EFFECT ON DRIVING
	Vision		
	Acuity .		
Core A-26	Field of vision		
	Color discrimination		
	Depth perception		
		\	

Figure 4. Specific Physical Characteristics

CHARACTERISTIC	SPECIFIC REQUIREMENT	EFFECT ON DRIVING
Night vision		·
Hearing		
Reaction time		
Normal and full use of arms, hands, legs, and feet		
Freedom from communicable diseases		
Freedom from organic or functional diseases		
Figure 4.	4. (continued)	

Core A-27 / A-28

CORE UNIT A REVIEW QUESTIONS--PART 1

STATE AND LOCAL REQUIREMENTS FOR BECOMING A SCHOOL BUS DRIVER

QUALIFICATION	STATE REQUIREMENT	LOCAL REQUIREMENT
SKILLS AND KNOWL- EDGE		
PERSONAL HISTORY INCLUDING POLICE AND DRIVING RECORDS	·	
BASIC HEALTH INCLUDING EMOTIONAL STABILITY		
REASONS FOR DENIAL, REVOCATION, OR SUSPENSION OF A SCHOOL BUS DRIVER'S LICENSE		



CORE UNIT A REVIEW QUESTIONS--PART 2

Answer	these	questions	in	your	own	words.

Ansv	ver these questions in your own words.
1.	When must the "SCHOOL BUS" signs be either covered or removed?
2.	When is it lawful for an individual or political subdivision to
	operate a commercial vehicle for the transporting of school children
	for extracurricular activities?
3.	What special warning signal lamps are required on a school bus?
4.	Why must a prospective driver take a school bus test before being
	granted a certificate to drive?



5.	What certificates and licenses must a driver have to legally operate a school bus?
6.	What is the minimum age for school bus drivers? What is the maximum age at which a person can become a school bus driver?
7.	List any four responsibilities you have to your supervisor.
-	ъ.
	c.
	d.
8.	List any four responsibilities you have to your passengers.
	a.
	b.
	c.
	d.



9.	List any	four	responsit	oilities	you	have	to j	parents	of	your	passen	gers
	a.											
	ь.											
	с.											
	d.											
10.	List anv	two	responsib	ilities	vou 1	have :	to v	our fel	low	emp1	oyees.	
	a.									•		
	ъ.											
11.	List any	four	personal	qualifi	.cati	ons y	ou s	hould p	oss	ess.		
	a.											
	ъ.											
	c.											
	d.											
12.	List thr	ee wa	ys you ca	n improv	e pu	blic	rela	itions.				
	a.											
	ъ.											
	c.											



13.	What	two	personal	records	of	yours	must	Ъe	free	of	violations
	a.	•									
	ъ.	,									

14. List two ways poor emotional or physical health could impair your driving.

a.

ъ.

15. Give one reason for denying or suspending a school bus driver's license.



CORE UNIT B

PASSENGER CONTROL

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OBJECTIVES

By the end of this unit, the students should be able to:

- List the procedures for controlling the bus and students during loading and unloading.
- 2. Describe general rules of student conduct and discipline procedures.
- 3. Identify types of disorder requiring immediate attention and describe procedures for controlling them.
- 4. Report student control problems.



OVERVIEW

INSTRUCTOR GUIDELINES CONTENT You are responsible for the health, safety, and welfare of the students who ride your bus. To keep them safe, you must be able to control them as well as you control the bus. But students aren't always as predictable as your vehicle. In this unit, you'll learn how to control your bus and your passengers: Emphasize these 3 points. 1. During loading and unloading. If bus patrols are used, include as number 1.a. "with 2. During the ride. the help of the bus patrol" 3. In cooperation with school officials and parents. Loading and Unloading Refer to state law on School One of the most important maneuvers you make is Bus Flashing Warning Light the loading and unloading of students. Experience System. shows that this is a point where students and drivers Summarize this law and proare exposed to many hazards. Therefore, you must do vide a handout for trainees to refer to. As you sumit a certain way to prevent accidents. marize law, have class take notes, particularly for the You must learn proper procedures for controlling type of bus in your school traffic, for crossing pupils, for loading and unloaddistrict. ing pupils, and for the proper seating of children. Refer to other sections of the law as applicable to First, consider the equipment on the bus necesloading and unloading. sary to accomplish these purposes. NOTES:

Core B-3/3-4

LOADING PROCEDURES

INSTRUCTOR GUIDELINES CONTENT Additional responsibility to the students starts approximately 150 feet from a stop or at that point where you can recognize a student as he approaches or leaves a bus stop.* Change or add any step(s) to conform to state law and local policy. A typical stopping and loading procedure is: Draw roadway and bus stop--1. When approaching the designated stop, follow through with the bus start slowing down in preparation for movements. (Use chalkboard or oversized diagram on the stop. flipchart.) 2. Apply brakes hard enough to light up the brake lights so that vehicles following will have an indication you are about to stop. Apply right-turn-signal indicators showing that you are going to move to the right. If your bus has an 8-light system, a. activate the prewarning amber flashing lights. The prewarning lamps could be activated even before step 1, depending on traffic conditions. The following procedures are in use in

your state has different or additional requirements.

Core B-5

some states. You should specify if and when

Some states require that school bus stay in lane and not pull over to the right. Cars are more tempted to pass a stopped school bus when it is pulled halfway off the road.

Fatal accidents have been caused by students pushing to be first to get on bus. A student may get pushed under the bus wheels.

Cite policies on seating, if any. Caution them that if traffic is heavy, waiting for all students to be seated could increase possibility of collision.

Refer to Figure 1 for a typical seating policy. Figure 2 describes a method called the Angel Seating Policy, which saves time.

CONTENT

- 4. Check all mirrors to see that traffic is clear and it is safe for you to pull to the right and stop.
- 5. Approach students with extreme care, giving due consideration to the surface on which you are going to stop: dry, slippery, dips sharply to the right, rough ground, etc.
- If possible, do not pull up any closer than 3 feet from the waiting students.
- 7. Cancel turn signal.
- 8. Place transmission in neutral.
- 9. Open the front door when you are ready to board the students. They should be trained not to move toward the bus until the door opens.
 - a. If your bus is on an 8-light system, opening the door will deactivate the amber flashing lights and activate the red flashing warning lights.
 - If your bus is on a 4-light system,
 activate the red flashing warning
 lights manually.
- 10. Have students go directly to their seats as prescribed by local district policy.

 See Figures 1 and 2.



- 1. Students use handrails when boarding bus.
- 2. Students fill up seats from front to rear of bus.

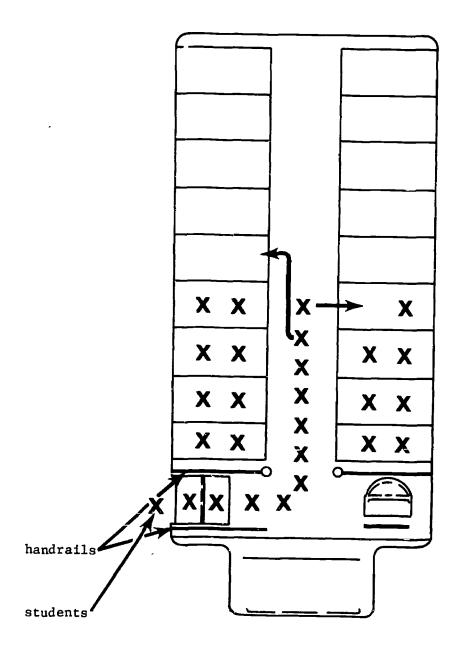


Figure 1. Typical Seating Policy



- 1. Students use handrails when boarding bus.
- Students fill up seats from front to rear of bus, but they leave the front seat opposite the driver (the "Angel Seat") vacant for the last two students who board at each stop.
- 3. At next stop, the students in the angel seat get up and take another seat toward the rear.
- 4. The last two students to board again sit in the angel seat.
- 5. When unloading, the process is reversed; the last two to get off at the next stop sit in the angel seat. As the seat is vacated, two students who get off at next stop move up to angel seat.

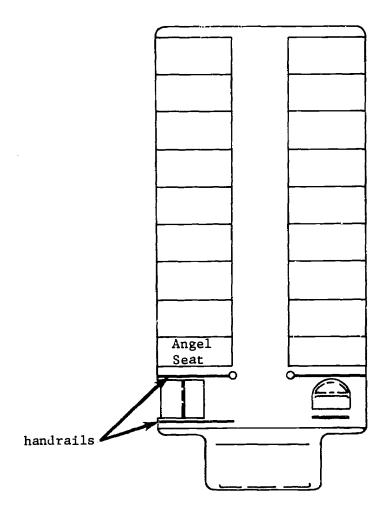


Figure 2. "Angel Seating" Policy



CONTENT

Figure 3 is a suggested form to use as a seating chart on the bus. It provides space for 3 students per seat. Allow students to choose where they want to sit for the semester; record position of each child and verify names against bus roster.

- 11. Check to make sure students are all properly seated, then prepare to close the front door.
- 12. Check traffic and deactivate red flashing warning lights.
- 13. Check traffic, use mirrors; turn on left turn signal and when safe, pull back into the lane of traffic; cancel turn signal; retain road speed; and proceed to your next stop.

NOTES ON LOCAL POLICY FOR LOADING



Driver's Seat

John North	Sue Smith	3 Dan Short
7	8	9
(etc.)		
13	14	15
19	20	21
25	26	27
31	32	33
37	38	39
43	44	45
49	50	51
55	56	57
61	62	63
67	68	69

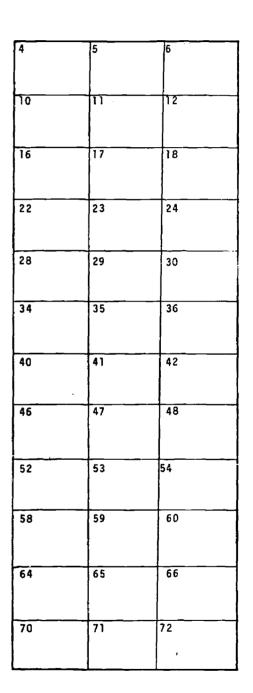


Figure 3. Seating Chart



UNLOADING PROCEDURES

INSTRUCTOR GUIDELINES

If bus patrols are in use, refer to pages 13 and 14 of this unit.

Refer to applicable sections of your state law. It is strongly recommended that all bus stops be arranged so students do not have to cross the roadway.

Change or add specific requirements where appropriate. For example, if your state requires drivers to escort students across the road, list the steps they should follow to do so. Ask/tell them about what local hazards might require this.

CAUTION: If a stop is situated completely off a roadway, yet close to it, traffic may not be required to stop. However, children may still have to cross road. In this case, the job of making sure they cross safely is made harder because the movement of traffic is not so controlled. Discuss with class.

CONTENT

Unloading students poses added problems; problems especially on the return trip home. Follow the LOADING procedure with these additions:

1. You are responsible for the safety of all students crossing the roadway, regardless of their grade level.

- 2. Give the motoring public a chance to react to the flashing red warning lights. In most cases, you shouldn't allow students to get off the bus until passing cars have stopped.
- 3. Students who must cross the road should line up in front of the bus and look up at you; no one should go beyond the left front fender.
- 4. You must check traffic in both directions before allowing students to cross the roadway.
- 5. While performing this operation, remember that you are not a traffic officer, and have no rights other than a regular motor—ist. In other words, do not signal any motorist to do anything. If a driver of



CONTENT

Discuss various signals drivers could use. The signals must not be construed by motorists that it's all right to drive on.

Be sure to spend extra time in class discussion on UNLOADING PROCEDURES.

OPTION:

A series of local slides can be developed that will be helpful in this area of training. a motor vehicle violates the red light law, write down and turn in his license number to the transportation supervisor or to the appropriate law enforcement agency.

- 6. Wait until it is safe for students to cross and then give them a prearranged signal.
- 7. When students have safely crossed the road, immediately cancel the red flashing warning lights to allow stopped traffic to move on.
- 8. Activate left turn signal and check rearview mirrors before pulling back onto the roadway.

When unloading students on school ground, the stops should be situated so students get off on the school side. Discuss with class how the above procedures can be modified if students must cross school driveway that has other buses or passenger cars in motion.

NOTES:



IF YOU HAVE SAFETY PATROLS*

INSTRUCTOR GUIDELINES

CONTENT

You may have a well-trained safety patrol assigned to your bus.

There is no age requirement for a bus patrol, but one should be at least 12 years of age.

PATROL DUTIES:

Add or substitute specific duties where they differ in your state or district.

 The function of a safety patrol is not to stop or direct traffic.

2. The safety patrol should direct pupils in loading and unloading and should aid small pupils in getting on and off bus.

3. The most important duty of the safety patrol is to direct pupils across road or highway safely, if they must cross. He should stand in front of the left front fender of bus with arms outstretched in a perpendicular position to the front of the bus. Students should wait behind his arms until it is safe to cross road or highway. When you signal the patrol that it is safe for pupils to cross, the patrol drops his arms and lets students cross.

4. The safety patrol should remain alert and should warn you of any apparent danger of which you are not aware.

The safety patrol should be furnished a badge, belt, and/or other means of identification.

It is strongly recommended that stops be arranged so that students do not have to cross the roadway.

Discuss what prearranged signals to use. Signal to patrol must not be construed by motorists that it's all right to drive on.



^{*}Adapted from state of Mississippi and NHTSA Task Description (8, 14)

CONTENT

YOUR DUTIES

You must <u>direct</u> the activities of the bus safety patrol, as follows:

- Direct one member of bus patrol to enter bus first and supervise seating of the other students.
- 2. Direct other patrol member(s) to supervise the orderly loading of the students from the roadway or loading zone.
- 3. If seat belts are used for passengers, assign to the bus patrol members the responsibility of checking that the seat belt is securely fastened.
- 4. Observe bus patrol members directing students who must cross a roadway. Check traffic and indicate to patrol that the way is clear.
- 5. Direct one bus patrol member to sit near the emergency door of the bus.

Add or substitute specific activities where they differ in your state or district.

OPTION:

Show film "School Bus Patrol." See AV Directory (56).

Lead class discussion.





GENERAL RULES FOR STUDENT CONDUCT

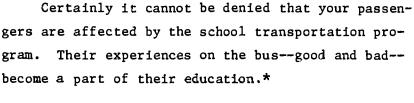
INSTRUCTOR GUIDELINES

CONTENT

OPTION:

Show film, "And Then It Happened." See AV Directory (7).

Discuss conduct in terms of home and/or school problems the students bring with them to the bus.



This is an aspect of public school transportation which has not received the attention which it deserves. You can do much to control students for their safety and yours.

DESIRABLE STUDENT CONDUCT

Formal classroom behavior need not, of course, be required of pupils in a school bus. An informal atmosphere which encourages pupils to relax and enjoy the ride is desirable. There are, however, certain limits within which pupil activity must be confined. What are these limits?

Your control over pupils should be sufficient to assure that:

1. Students will enter and leave the bus
at school loading stations and at highway
bus stops in orderly fashion and in
accordance with instructions.

This requires pupils to proceed at all times:

- a. Without haste and without loitering.
- b. Without crowding and without pushing.
- c. With each pupil showing due regard for his own safety and the safety of others.

Emphasize each rule, giving and asking for examples. Add or delete any that differ in your state or district.



Adapted from state of Iowa (6)

INSTRUCTOR GUIDELINES	CONTENT
	 2. Students will remain quiet enough not to distract you. Pupils must, at all times: a. Refrain from shouting and other boisterous activity. b. Refrain from talking to you while the bus is in motion. c. Show due consideration for you and your problems. In general, any activity which worries or distracts you as the driver is objectionable. You need to keep your mind on the driving and on the traffic situation. If you are worried about the activity in the bus, you cannot be a safe driver.
Refer to appropriate section of your state law.	 Students will remain seated while the bus is in motion. a. Each pupil must go directly to his seat upon entering the bus. b. Each pupil must remain seated until the bus has stopped. Students will cross road in accordance with instructions and the provisions of the state law. Students will neither purposely nor carelessly destroy property. Transportation equipment represents a large capital investment. Pupils can be expected to cooperate in its maintenance and preservation.

INSTRUCTOR GUIDELINES CONTENT Orderly behavior in the bus, at all times, is essential. Rough-housing is not only hard on seats and interior finish: it also makes it difficult for you to drive safely. b. Pupils should keep feet off the seats. c. Pupils should keep sharp objects off the upholstery. 6. Students will not extend arms or other parts of body out through windows. It is important that no object protrude through an open window. b. Pupils should leave windows alone. You should attend to ventilation. 7. Students will not throw objects about in the bus nor out through windows. Waste paper and other refuse may not be scattered along the highway. Provision should be made inside for such material and it should be disposed of at end of trip. b. Books and other property should be properly stowed on laps. c. The aisle should be clear. Shooting "paper wads" or other material in the bus is not permissible.

In addition to items listed above, you should instruct and encourage students to:

 Follow your instructions promptly and cheerfully.



Drivers should notify school authorities regarding inadequate clothing, child abuse, consistent bullying, etc.

Consider the wind chill factor in some climates which students must endure when waiting for a late bus. If students are expected to be on time, drivers must be also.

Add or delete any rules for conduct as appropriate to your state or district policy.

CONTENT

- 2. Be on time at the bus stop location.
- 3. Be on time at the school loading station.
- 4. Avoid playing or loitering on the highway when waiting for a bus which is late.
- 5. Follow correct safety procedures when walking on the highway to and from a bus stop. In some instances, pupils must meet a school bus some distance from the home driveway. Procedures for walking on the highway should be clear to pupils.
- 6. Other:



YOUR RESPONSIBILITY FOR DISCIPLINE

INSTRUCTOR GUIDELINES	CONTENT
	All rules and regulations concerning student behavior should be well known and clearly understood by:
	1. Bus drivers
	2. Students
	3. Parents
	Obviously, you cannot be solely responsible for proper student behavior. Teachers should have direct responsibility for training and instructing transported pupils. Teachers, as well as bus drivers, should supervise loading stations at the school grounds.
It is suggested that you or the school provide a list of rules of conduct for pupils who ride school buses.	Mimeographed lists of rules and regulations covering pupil behavior should be prepared by the administration and distributed to pupils and parents. The active cooperation of parents can be very helpful. You must, of course, accept responsibility for supervising and controlling pupils out on the route. You cannot escape the fact that you are in charge. Establish and discuss acceptable discipline procedures.
Have trainees read and summarize state and local laws for driver responsibility and authority to discipline. Emphasize main points, e.g., "do not use corporal punishment."	NOTES ON STATE AND LOCAL REGULATIONS:



STUDENT MANAGEMENT*

	
INSTRUCTOR GUIDELINES	CONTENT
Emphasize main points.	As a good bus driver, you should always have a general knowledge of your "load" or cargo. Your personal knowledge of the individuals transported will not be as intimate as that of the teacher since you have contact with the pupils for only a short
	time each day. Your main function is to carry the pupils to their destination and discharge them unharmed. But, you must know something of the behavior patterns of your riders and know a great deal about their reactions in order to safely pick up and deliver your load. Remember the following:
	1. Each child is an individual and therefore different, but do not allow special privileges to any pupil unless requested by the school administration. The administration has complete records on each pupil and is better able to judge a pupil's needs than you on the basis of your short daily contact with the pupil. 2. Observe the rights and privileges of each child only as long as he obeys the
	rules of good bus behavior. The moment a pupil "gets out of line," deal with him or her fairly, impartially, and in the same manner you treat all such offenders. In the eyes of children, the greatest sin an adult can commit is to "play favor- ites." 3. Remember that all eyes are on you while
	you are driving the bus. Your words and actions have tremendous influence on the children riding on your bus. *From state of California (2)

CONTENT

Emphasize that communication with the proper persons is important if trouble is encountered. Driver should be alert to the beginnings of problems that could flare up into major confrontations. Driver should try to

know how to handle a partic-

ular student, ask someone

who would.

get to know students as individuals. If he doesn't

Refer to "Behavior Curve" in Figure 4. Discuss differences in behavioral tendencies from Grades K-12. Emphasize that physical and emotional activity peak is usually around Grades 7-8.

Emphasize the negative effect a bus driver's sarcasm could have. For example, the driver calls out to an 8th grade boy, "Hey you with the girl's hair." Encourage class discussion.

Emphasize cooperation, treating students as <u>driver</u> would like to be treated. Don't be a nag; enlist help of students.

- 4. Speak quietly, clearly, with confidence and <u>firmness</u> when talking to the children on your bus.
- 5. Be liberal in your praise of the group when they accept responsibility well and have a general pattern of good behavior.

 Do not single out individual students for praise before the group.
- 6. Do not try to handle serious discipline

 cases yourself. Refer all such cases to
 your supervisor or the school principal.

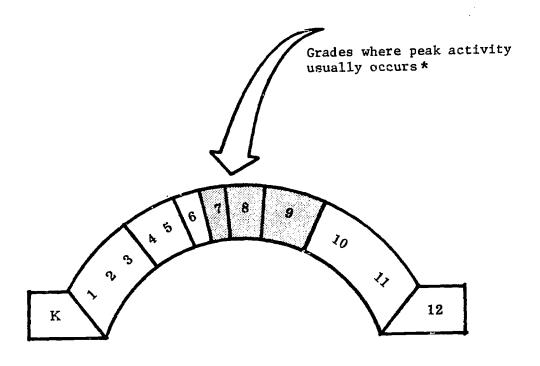
 Give all the facts and be sure the entire
 problem is understood. Usually the child
 who causes the problems on the bus is
 also causing problems in the classroom.

 The school administrator has the whole
 picture of the child while you, as a bus
 driver, know only his bus behavior.

Pupil psychology demands that all talking to the pupils must be done without shouting, excitement, or evidence of irritation. You must be careful in your talks with the pupils to never threaten them with violence. Carry out your instructions to the pupils with no evidence of favoritism. If you overlook violations of conduct by one pupil, you'll lose the respect of the other pupils. Strike a happy medium by not being too lenient or too harsh, as both extremes are equally bad for the morale of the pupils on the bus. Your attitude should be friendly, cheerful, and businesslike.

Strive to build morale and cooperation in your busload. This can be done by being friendly, courteous, and helpful. In the course of time, the pupil





*From state of California (2)

Figure 4. Behavior Curve Showing Grade Levels and Student Activity Tendency



CONTENT INSTRUCTOR GUIDELINES morale will be a great source of help in controlling pupils who are the worst offenders. When pupils dis-Emphasize underlined point, cover that improper conduct is not acceptable to the but caution trainees that group, offenders will hesitate to do things which rules must conform to state cause them to lose "face" with the group. One of the and local regulations. best approaches to building pupil morale is to give the pupils a chance to participate in drafting the rules and regulations for maximum safety on the school bus. Practice all approaches which create better driver-pupil relationships.

WHEN YOU HAVE DISCIPLINE PROBLEMS

INSTRUCTOR GUIDELINES	CONTENT
	You must maintain order on your bus. Keep in mind the following simple rules:
Discuss what to do in cases where physical touching may be warranted, e.g., fight.	1. Stop the bus if the behavior problem is a serious one. If it is a minor infraction, a word of warning over the speaker system (if available) or a remark directed to the offender may be enough. If the infraction is more serious in nature, stop the bus. The fact that you have
	taken this action makes the pupils realize the situation is one that is out of the ordinary.
Give specific local procedures for handling "serious" problems.	2. Stand up and speak to the offenders in a courteous manner but in a firm voice. Don't show anger, but all pupils must realize you "mean business."
	3. If a change in seating is needed, move the pupil to a seat near the driver so you can more closely observe his behavior.
Discuss local school board policies on how to handle this. Discuss three situations which warrant immediate or "drastic" action:	4. You have no legal right to put a pupil off the bus except at his regular bus stop or at the school. However, if an emergency situation develops in which you
 a. fist fight; b. collapse of student due to illness, drugs, or alcohol; c. small fire, explosion, or similar acts of vandalism. 	feel very drasite action is needed, stop the bus and send a responsible pupil or adult to notify the supervisor or prin-

Core B-25/B-26

REPORTING DISCIPLINE PROBLEMS

INSTRUCTOR GUIDELINES

CONTENT

Discuss local policies on reporting discipline problems, show class appropriate forms, and show the correct way to fill in form. You are responsible for the conduct of pupils on your bus, but you must have the backing of the school administration to effectively discharge this responsibility. In cases of continued misconduct, report the pupil to the supervisor or principal and ask that some action be taken toward withdrawing the pupil's right to ride the school bus.

Refer to Figure 5. Give an example problem and sample filled in form. Be sure to give local contacts and their telephone numbers.

In many school districts, the first action taken is a reprimand or a withdrawal of bus privileges for a short time. If the pupil's behavior does not improve when he returns, he may be denied the right to ride the bus for a longer period or he may be transferred to another bus. This is usually done after all other measures have failed to improve the situation.



If you feel the conduct of the student makes it necessary to withdraw his bus privileges, take him to his designation and inform him that he cannot ride the bus until the matter has been cleared with the school administration. ON THE SAME DAY, INFORM THE ADMINISTRATION ON THE PROPER REPORT BLANKS. (See Figure 5.)

NOTES ON REPORTING:



F413 BUS CONDUCT REPORT * School:___ Student's Name:__ Date: Bus No. Address: Breach of Discipline: Notice to Parents: You are hereby notified of breach of discipline involving your child. This card must be returned with your signature before your child will be permitted to use the bus. Any further breach of discipline may cause denial of transportation. Driver's Signature Notice of breach of discipline and driver's action in regard thereto is acknowledged. Parent's Signature: Principal's Signature:

Each district should have its own report form and rules relative to its use. One copy goes to the parent, one to the administrator, and one is kept by the driver. The first report might be considered a warning; the second could mean the loss of riding privileges for a period of time; the third could result in a conference by the student, the parent, the administrator, and the driver.

* From state of Oregon (17)

Figure 5. Suggested Report Form



SUMMARY DO'S AND DON'TS FOR BUS DRIVERS REGARDING DISCIPLINE

INSTRUCTOR GUIDELINES	CONTENT
	Listed here are several do's and don'ts which should help you with problems of discipline.
	DO'S
	1. Always be courteous to your students.
Add or delete as appropriate	2. Always control your temper.
for your district.	3. Act the part of a person in responsible position, conscious of your important job.
	4. Do everything possible to inform pupils that they themselves have important responsibilities in assuring group safety.
	5. Maintain close contacts with principals and secure their cooperation.
	6. Spot the few troublemakers and ask the prin- cipal what methods to employ if you are un- certain.
	7. Seat any troublemakers near you, within your vision.
	8. Be firm, but kind.
	DON'TS
	1. Don't be too familiar with the students.
	2. Don't be too lenient at first.
	3. Don't make "wisecracks."
	4. Don't threaten.
	5. Don't shout.
	6. Don't argue.
	7. Don't use physical force; observe the policy of "hands off."



INSTRUCTOR GUIDELINES CONTENT 8. Don't create issues that have to be settled later. 9. Don't discipline children while the bus is in motion. 10. Never assume that everything is all right. 11. Avoid general statements to the whole busload of students when restoring order. 12. Don't question publicly the decisions of the school board; however, feel free to make suggestions for improvement to the proper authority. Administer Core Unit B NOTES: Review Ouestions. Provide feedback in the form of model answers. Provide further guidance for any trainees who don't meet criterion. They could reread parts of the unit, talk with experienced drivers, etc. Make sure their answers conform to state and local regulations.

Check whether the statement is mostly \underline{T} rue or \underline{F} alse.

1.	A parent or teacher relieves the driver of half of his	Т
	responsibility for student behavior.	F
2.	Being liberal in your praise when students are on good	T
	behavior is a wise move.	F
3.	Conduct of the pupils aboard the bus is the direct respon-	Т
	sibility of the principal.	F
4.	A driver who is lenient gains respect and control over his	T
	busload.	F
5.	The business-like attitude of the driver has a great deal	T
	to do with pupil psychology.	F
6.	A student who misbehaves on the bus may be kicked off any	T
	place the driver feels it is safe.	F
7.	"Troublemakers" or youngsters likely to misbehave on the	T
	bus may often be identified by the way in which other	F
	pupils act toward them.	
8.	Favoritism is a good way to gain control of your students.	T
		F
9.	Seat your troublemakers near the center of the bus.	T
		F
LO.	It is good practice for a driver to understand the growth	T
	problems as well as behavior patterns of the children in	F
	his care even for the short period he will be with them.	
11.	Vehicles traveling in both directions on an undivided	T
	highway must stop for a school bus which is loading or	F
	unloading passengers.	_
12.	After unloading passengers, the driver may proceed as soon	T
	- 26 the last sinnent siens on to the Vround or navement.	



13.	On highways having dual or multiple lanes separated by	Т
	safety islands, a vehicle overtaking a school bus, which	F
	is loading children, has to stop.	
14.	Federal Standards recommend that there be no standees on	T
	school buses.	F
15.	There is no penalty for a motorist who passes a school	Т
,	bus while it is loading or unloading passengers.	F



Briefly describe, in your own words:

	• " • • • • •
1.	How you control the bus (including red flashing warning lights) as you approach and stop to <u>load</u> passengers.
2.	How you control students as they enter the bus.
3.	How you control the bus as you approach and stop to unload passengers.

4. How you control students as they leave the bus.

OPTIONAL QUESTION FOR SYSTEM WITH BUS SAFETY PATROLS:

Briefly describe the duties of the school bus patrol in supervising the loading process with regard to:

- 1. Other students
- 2. The driver
- 3. Motorists



Fill in the right-hand column

If one of the students on my bus were:	I would:
1. Eating	1.
2. Trying to get off at a corner other than his regular stop.	2.
3. Shouting the school's victory song.	3.
4. Conversing in normal tones.	4.
5. Walking in the aisle while bus is in motion.	5.
6. Smoking.	6.
7. Running to catch bus as I start to pull away from stop.	7.



If one of the students on my bus were:	I would:
8. Trying to bring her dog to school.	8.
9. Opening the window and scraping snow into snowballs.	9.
10. Doing his homework.	10.



1. List three examples of disorders requiring immediate attention and describe the procedure you would use to control each.

DISORDER	PROCEDURE	
a.	a.	
	·	
b.	b.	
c.	с.	
	·	
<u>[C</u>	Core B-36	

Write	three	examples	of	conduct	problems	you	would	report	.
a.									
ъ.									
c. ,									
r#1									
wny wo	oura yo	u report	suc	ch a prob	olem?				
Who wo	ould yo	u report	to?						
Name _			_		Title				
What i	s the		alt	y in you	r distric				conduct



CORE UNIT C

ACCIDENTS AND EMERGENCIES

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OBJECTIVES

By the end of this unit, the students should be able to:

- 1. Identify the major causes of school bus accidents and describe actions to avoid accidents.
- 2. Identify his/her legal responsibilities and required action in case of an accident.
- State the school's policy on eight accident/ emergency issues.
- 4. Describe and demonstrate emergency procedures to follow.



GENERAL CONCLUSIONS ABOUT SCHOOL BUS ACCIDENT FACTORS

INSTRUCTOR GUIDELINES

Choose three "case histories" of different local accidents in which school buses were involved. Present facts, description, and diagram for each accident on a separate handout.

Distribute handouts and discuss each accident with class.

Identify the cause of each and the frequency with which each occurs in your area.

Discuss general conclusions and indicate where they vary for your area or state.

CONTENT

On a national level, certain factors influence school bus accidents. Your local statistics may vary.

• School bus drivers are at fault about half the time; failure to yield the right of way is the most common driver violation.

 Collision between a school bus and another vehicle in traffic is most common type of accident.



^{*}Adapted from School Bus Accident Data (4)

CONTENT

Discuss possible reasons. Young drivers may be less mature emotionally, less experienced in various driving situations.

Elderly drivers tend to have longer reaction time, poorer vision, and poorer hearing. Young drivers and elderly drivers tend to have a higher accident rate than the intermediate age group.

Explain how salt and corrosion could cause weakening of metal tubing used for brakelines.

> ·

 Defective brakes on the bus is the most common mechanical factor in accidents.
 (But mechanical failures cause a very low percentage of accidents.)

Refer to Figure 1. Cite

Nationally, school bus transportation accidents killed about 180 persons in 1972, including 100 pupils, 10 bus drivers and 70 other persons.

Of the pupils killed, about 35 were passengers on school buses and 65 were (student) pedestrians either approaching or leaving a loading zone. More than half of the pupil pedestrian victims were struck by a vehicle other than the school bus which they were entering or laving.

 More students are killed approaching or leaving the bus than onboard the bus.

DISCUSSION: (Your instructor will discuss Figure 1.)

TOTAL ACCIDENT SUMMARY*- 19 - School	PUBLIC SCHOOL BUSE Year (September 1	S INVOLVED	O - STATE O)F
Total Number of Accidents				=
Total Number of Urban Acc				
Total Number of Suburban				
Total Number of School Bu	s Drivers at Fault	:	• • • • • • • • • •	
Total Number of Accidents				
Time Factors: A.M. Accid	ents P.M.	Accidents	Not	Stated
Daylight	Monday.			
Dawn		····		
Dusk		lay		
Dark		ıy		
Not Stated		••••		
		ıy		
	Sunday.			
Total Number of Multiple-B	us Accidents: Two	Buses In	 volved	
			Involved	
			Buses Invo	
Severity of Accidents: Nu	 mber of Fatal Acci			=====
	mber of Fatalities			
	mber of Personal I			
	mber of School Chi		· 	
	mber of School Bus			
	mber of Property D			<u> </u>
	hers	_		
Bus Driver_Factors:(Only)		 Male	Female	
Dan Dilver Indeeding (only)	Under 21	Haie	remere	TOTAL.
	21-30			
	31-40			
	41-50			
	51-60			
	61-70			
	71 and over.			
	Not Stated			·
	TOTALS:			

Figure 1. School Bus Accident Factors



^{*}From questionnaire developed by Richard W. Guyer, Ball State University Graduate Division (10)

SCHOOL BUS ACCIDENT SUMMARY (Continued) - STATE OF				
	***	****		
Weather Factors:	Clear	Ra	in-Mist	
	Snow-Sleet	Fo	g-Smoke	
	Not Stated	· · · · · · · · · · · · · · · · · · ·	· 	
Road Condition Fact	ors: Dry	Straight	City Street	
	Wet	Curved	County Hwy	
Paved	Snow	Intersecti	on Rural Road	
Grave1	Ice	RR Crossin	g State Hwy	
Dirt	Not	Bridge or	Federal Hwy	
Not	Stated	Tunnel	Interstate	
Stated		Not Stated.	Not Stated	
Violations of School Bus Drivers: (Only)				
Following Too Closely Improper Passing. Inattention. Improper Turn. Reckless Driving. Failure to Stop (Intersection, Railroad, Entering, etc.). Defective Equipment. Exceeding Speed Limit. Improper Loading or Unloading. Driver Fatigue. Drinking Intoxicants. Other. Not Stated.				
Locarion of Impact Area On Bus Body:				
Front: Right Front Rear: Right Rear				
Middle Fro	Middle Front Middle Rear			
Left Front	••••			
Right Side: Forwar	d	Left Side:	Forward	
	•••••		Middle	
			Back	

Figure 1. (continued)



YOU PREDICT

INSTRUCTOR GUIDELINES	CONTENT
Provide three potential accident situations involving different combinations of factors you covered in Figure 1. Have trainees "predict" accidents, based on the local data they've recorded.	Your instructor will tell you about some potential accident situations and you'll predict what will happen. ACCIDENT PREDICTION #1
	ACCIDENT PREDICTION #2
	ACCIDENT PREDICTION #3

ERIC

Full Text Provided by ERIC

CONTENT

Emphasize standard of conduct involves "due care" of varying degrees, depending on duty. School bus drivers are usually assumed to have a legal duty to act with a higher degree of care than the ordinary driver, because they are transporting pupils.

SCHOOL BUS DRIVER LIABILITY FOR PUPIL INJURIES*

You may be held liable for injuries to school children resulting from your negligence. All four essential elements or grounds for negligence must be present. Courts generally consider these to be:



1. Your legal duty to conform to a standard of conduct for the protection of others against unreasonable risks.



Your failure to conform to the standard.

A reasonably close causal connection between your conduct and resulting injury.

Actual loss or damage resultaing to the interests of another.

Explain #2: "Failure to conform to standard of conduct" is usually determined on the issue of whether or not the driver could foresee harm from his action or inaction. The question becomes, was the accident foreseeable--and thus, preventable--by the driver? If yes, he probably failed to meet the standard of conduct.

Discuss whether the accidents in the 3 case histories you presented involved probable driver negligence.

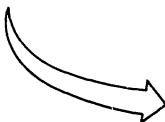


NOTES:

From state of Iowa (5)

Give a brief summary of court cases in which drivers were and were not found to be negligent.

Discuss the 8 considerations listed.



CAUTION: "Normally accepted means" does not include corporal punishment, unreasonable threats, etc. Give examples of what your district considers "normally acceptable."

OPTION:

Show the film, "The Final Factor." Discuss whether the drivers of cars were potentially negligent. Compare with school bus driving situations

Play the audiotapes "You Are the Jury." See AV Directory (32, 80).

CONTENT

The considerations that most courts use in determining driver negligence are:*

- 1. The degree of care which driver must use ranges from "ordinary" and "reasonable" to "extraordinary" and "highest degree." The degree required depends on type of duty. The tendency of the courts is to require more care from people with a duty involving younger children.
- The approximate age of a child considered to be capable of recognizing traffic dangers is 10 to 11 years.
- You and your district are both accountable for maintaining a safe vehicle.
- 4. Most cases involving accidents while boarding and alighting from a bus use the factors of "reasonable care" and "safe places" in determining negligence.



- You are expected to keep order on a bus and may use any normally accepted means.
- 6. You are not automatically guilty of negligence if injury occurs. You have the opportunity to refute the charge by proof that proper care was used.
- 7. You may generally be held accountable for your acts separately from any decision regarding district liability.
- 8. NEGLIGENCE IS FOR JURY DETERMINATION.



^{*}From state of Iowa (5)

	
INSTRUCTOR GUIDELINES	CONTENT
Provide a case history of an actual suit brought against a school bus driver. Include facts that will enable trainees to answer the ques-	Your instructor will describe a case history involving a law suit.
tions below. Have the court decision written separately. Trainees answer the first four questions. Then present the decision on the driver's negligence. Encourage discussions.	ČASE HISTORY:
OPTIONS: Show the film(s):	
"The Human Factor in Driving" or "Be Your Own Traffic Judge" or "Preventable or Not?"	
See AV Directory (38, 65, 49)	
	·
	Answer these questions:
	1. Did the driver have a legal duty to meet a certain standard of conduct in this situation?
	2. Did he act with "due care" (the way a reasonably careful bus driver would)?
	3. Was there actual harm, injury or damage?

Core C-10

INSTRUCTOR GUIDELINES	CONTENT
	4. Did the driver's conduct (action or inaction) cause or result in the injury?
	COURT DECISION The driver [was/was not] determined to be negligent. Who may be held liable for the injuries resulting from this accident?
	DISCUSSION

ACCIDENT PROCEDURES

CONTENT INSTRUCTOR GUIDELINES Distribute handout of synop-If you have an accident, there is a procedure sis of applicable state law. to follow that will meet the requirements of the state Be sure to include your local law. No two accidents are the same. The sequence of investigation, highway patrol things in the suggested procedure may not be practical instructions, etc. in every case. At times, good common sense will be Explain and answer questions. the rule. STATE LAW REGARDING ACCIDENT -- NOTES: Reporting an accident on proper forms is covered later. Substitute the use of bus Your primary responsibility is to your passenpatrol if applicable. gers. Therefore, your first responsibility is to remain calm. If you are unable physically to perform your duties, direct others to do them for you. Should this be the case, ask your oldest and most capable student to help. The following procedure is recommended: 1. Turn off ignition switch and take keys. 2. Set brakes. Remain calm and reassure students. 4. Use warning devices to "protect the scene." a. Protect the students and the bus Explain how. from further accidents and injuries: Place flags, flares or fusees in accordance with state law.

CONTENT

Explain how.

b. Protect the scene from traffic and people so that evidence is not destroyed.

Discuss and give examples of exceptions, e.g., when bus is on railroad tracks.

c. Under normal circumstances, the vehicle involved should not be moved until law officers advise you to do so.

Point out location of fuel tank on various buses, using pictures

5. Be alert to a fire or the possibility of . fire.

- a. Check for ruptured fuel tank and fuel lines. A bus can be a potential furnace.
- b. Check for electrical fire.
- c. Look for smoke.
- d. Check for hot tires which may catch fire--caused by metal rubbing against a tire from point of impact to final resting place.
- e. Extinguish fire, if any.
- 6. Check for injury to pupils.
 - a. If pupils are injured, follow first aid procedures.

Use of fire extinguishers and warning devices will be covered later in this unit.

First aid will be covered in Advanced Unit B.



CONTENT

They'll learn evacuation conditions and procedures later in this unit.

7. Keep all students in the bus, except in three cases:

- a. Conditions might lead to a possible fire.
- b. Danger of further collision.
- c. Danger of drowning.
- 8. Account for all students.
- 9. Notify school administrators of the location of the bus accident.

Emphasize that driver should give information on:

WHO
WHAT
WHERE
WHEN
WHY
WHAT NEEDED

Explain how to send students for help; include local policy.

Drivers should know the route, location of hospital or medical assistance, location of public telephones, and emergency telephone numbers.

10. Notify the appropriate law enforcement agency.

CONTENT

- 11. Do not discuss the facts of the accident with other motorists but give information only to investigating officers and school officials.
 - a. To provide necessary information for all concerned—law enforcement officers, school officials, etc.
 - (1) List all students' names, ages, and addresses.
 - (2) Information about the school
 bus, such as insurance, make,
 model number, owner, etc. An
 emergency packet should be
 carried on the bus which includes bus information, emergency
 telephone numbers and any
 additional local directives
 covering this subject.
 - b. While being investigated, be patient, evaluate questions, and give clear and concise answers.
 - c. A driver involved in an accident is required to give his name, address, driver's license number, and vehicle information. Be ready to give this information to the other driver and also write down the same information regarding him.
 - d. If witnesses were present, other than your students, get names, addresses, and license numbers.

Show examples of an emergency packet and discuss how your local district or company wants this done.



CONTENT

Account for all students via checklist.

Add, delete, or substitute state or local control on accident procedures. Encourage trainees to ask

questions. Lead discussion.

Present types of incidents which must be reported to the police and provide specific examples.

Provide one accident situation and a random list of possible driver actions. For example, Driver A did the following things: . . ., Driver B, Driver C, etc. Have trainees choose which driver acted appropriately. Have class provide feedback to each other. Provide answer and reasons.

- 12. Cooperate with school administration.
 - a. During the investigation of the accident, do not release any of your students to anyone unless told to do so by the school administration (see page 48 of this unit).
 - b. If students are injured and need to be removed from the scene, follow policy adopted for this purpose at the local level, if applicable (see page 47 of this unit). If not, send someone to call for aid, such as hospital, ambulance service, or fire department—wherever help can be summoned quickly. The injured should be transported by proper means to a hospital for care.
- 13. Continue the transportation of the students by:
 - a. The present bus if released.
 - b. Another bus.
 - c. Some other means, again following local policies of the district, but not until authorized to do so.

NOTES:



REPORTING AN ACCIDENT

INSTRUCTOR GUIDELINES CONTENT Ask why it's important to We will now go over our forms and how they are have written record of to be filled out. accidents. Explain, if necessary. Explain all local accident forms. Refer to CASE HISTORY OF AN ACCIDENT: Figure 2 for a sample form. Include legal requirements in your state as to the dollar amount of damage or extent of personal injury. Use sample case history of accident. Distribute filled in sample forms. Demonstrate how to draw the illustration of what happened, using suggested symbols for cars, buses, etc. The use of transparencies on an overhead projector is one method for this demonstration. Stress that the federal standard requires that bus drivers must complete a written report of any accident involving a school bus. regardless of the severity of damage.



ACCIDENT REPORT OF DRIVERS OF SCHOOL BUSES* (If serious, telephone or telegraph)

Drivers of school conveyances involved in accidents (regardless of the seriousness of the accident or whether any children or other persons are injured) shall make out and file TWO copies of the accident report with the Superintendent of Schools. The Superintendent shall, in turn, file one copy with the Bureau of Field Financial Services of the State Education Department.

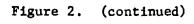
Date of accident	Time
Place	
(Between what streets, or ne	arest intersecting road, or nearest house)
Weather	Pavement
Accident involved	
(Pedestrian, tr	ain, cycle, automobile, other object)
	Address
Bus number Make	Year Capacity
Damage to bus	
Other vehicles	Damage
(Passenger car, tru	ck, etc.)
	INJURIES
Number of passengers in bus	Number of passengers injured
Nature of injuries	
Number of others injured	Nature of injuries
Where and by whom treated	
Injured pupil or pupils are enrol	led in school district No.
Town of	·
(Report accidents involving passe sheet.)	ngers crossing to and from bus on separate
*Adapted from state of New York (18)

Figure 2. Sample Accident Report Form



STATEMENT OF DRIVER

Briefly describe how a of your vehicle and other condition, weather, etc.				
			·	
	<u> </u>			
		v		
				_
-				
		<u>'</u>		
		,		
				
- 				
Illustrate accident or	n diagram o	n next page		
Dated		Dated		
	_			
Drive.		County and Village or	Supervisory City	District,
		Superint	endent of S	chools
School districts served				





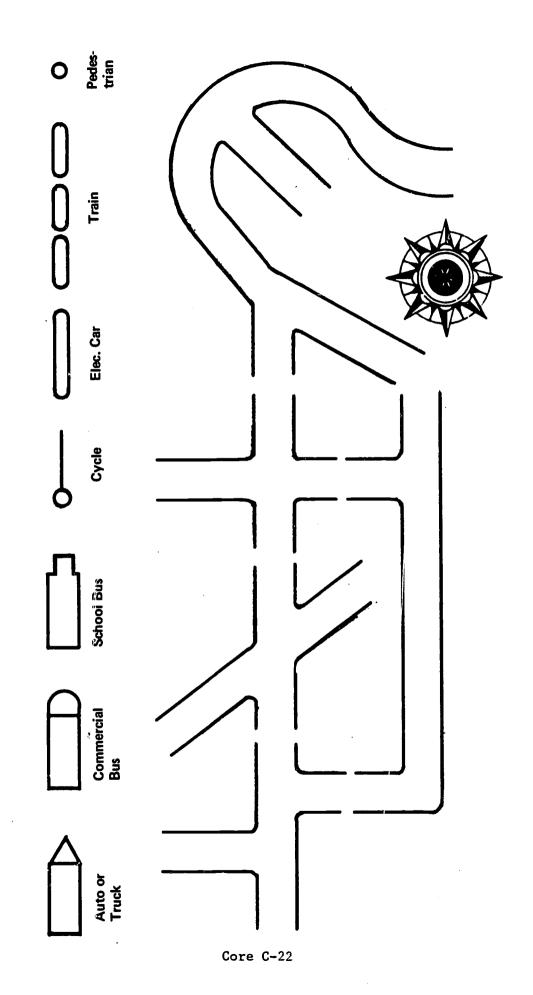


Figure 2. (continued)

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MECHANICAL FAILURE/BREAKDOWN PROCEDURES

INSTRUCTOR GUIDELINES	CONTENT
	Despite good design, engineering and/or the preventive maintenance programs, you may have mechanaical failures occasionally. You must know what to do, how to do it, and when it should be done in case of a breakdown while on the road.
Quote local control on this.	Let's begin by studying legal requirements as far as equipment is concerned.
	NOTES:
	4
	Here is a suggested procedure for mechanical failure.*
·	 Stop the bus as far to the right of the road as possible, or on the shoulder of the road.
	2. Secure the bus; activate 4-way hazard lights, and place chock under wheel.
	 Keep children in bus unless this is unsafe.
	4. If location of the bus is unsafe, remove the children to a safer location (see EVACUATING THE BUS, p. 27.)
	*From NHTSA Task Description (14)



Provide your state's law on where to place warning devices. Use diagram to illustrate.

Driver should have a thorough knowledge of the route, best pull-off positions, location of public telephones, who to call, etc.

Explain your school's policy on sending a student for help, flagging down passing motorists.

Provide local policy and procedure exceptions.

Discuss kinds of failures driver should attempt to repair, if applicable in your district.

Distribute filled in sample maintenance repair report form. See Figure 3, or use your own.

CONTENT

5. Place flags, flares, fusees, etc., in accordance with state law.

- 6. Telephone, radio, or send bus patrol (or capable student) to call the proper school authorities, giving location of the bus and description of breakdown.
- 7. See that all pupils are delivered to their destination.
- 8. Complete maintenance repair reports.

LOCAL EXCEPTIONS:



DRIVER REPAIR REQUEST

Driver Date Bus No.

1. Air Leaks	13. Lights	ights
2. Brakes	14. Motor	lotor
3. Choke	15. Idle	ile
4. Clutch	16. N	16. Motor Missing
5. Controls	17. N	17. No Power
6. Doors	18. Seats	eats
7. Fan Belts	19. Starter	tarter
8. Generator	20. S	20. Steering
9. Heater	21. T	21. Tires (Condition)
10. Horn	22. Glass	lass
11. Instruments	23. W	Windshield Wipers
12. P.A. Out of Order	24. 0	. Other

REMARKS OR EXPLANATION:

It's a good idea to have emergency phone numbers, special directions, etc., on the back of this form. You should carry a supply of these forms in the driver's compartment. NOTE:

ŧ

Figure 3. Sample Maintenance Repair Report Form

3



EVACUATING THE BUS

INSTRUCTOR GUIDELINES	CONTENT
	Usually, students remain on the bus during an emergency. But, three situations require that you evacuate the bus:* • FIRE OR DANGER OF FIRE • UNSAFE POSITION
Cite local incidents where evacuation was necessary.	1. Fire or danger of fire. A bus should be stopped and evacuated immediately if the engine or any portion of the bus is on fire. Passengers should move a distance of 100 feet or more from the bus and remain until the driver of the bus has determined that no danger remains. Being near an existing fire and unable to move the bus away, or near the presence of gasoline or other combustible material should be considered as "danger of fire," and students should be evacuated.
	 Unsafe position. In the event that a bus is stopped due to accident, mechanical failure, road conditions, or human failure, the driver must determine immediately whether it is safer for passengers to remain in the bus or to evacuate. You must evacuate if: The final stopping point is in the path of any train or adjacent to any railroad tracks.
9	*From Standards for School Bus Operation (9)



CONTENT

- b. The stopping position of the bus may change and increase the danger. If, for example, a bus should come to rest near a body of water or precipice where it could still move and go into the water or over a cliff, it should be evacuated. The driver should be certain that the evacuation is carried out in a manner which affords maximum safety for the children.
- c. The stopping of the bus is such that there is danger of collision. In normal traffic conditions, the bus should be visible for a distance of 200 feet or more. A position over a hill or around a curve where such visibility does not exist should be considered reason for evacuation.

In an emergency it is possible for children to jam the emergency door by all trying to get out of the door at the same time. To help avoid this situation, you should organize and conduct emergency exit drills for all students who ride school buses.

There are several ways to evacuate:

- Everyone exits through the rear emergency door.
- 2. Everyone exits through the front entrance door.
- 3. Front half exits through the front door and rear half exits through the rear door (see Figure 4).

Discuss which evacuation way(s) the bus itself and local policy permits for your district.

Provide diagram(s) of your own bus(es) on overhead transparencies. Indicate emergency and regular exits. Show the flow of passengers as they follow each of the 4 evacuation methods. Omit #4 if your buses don't have side doors.



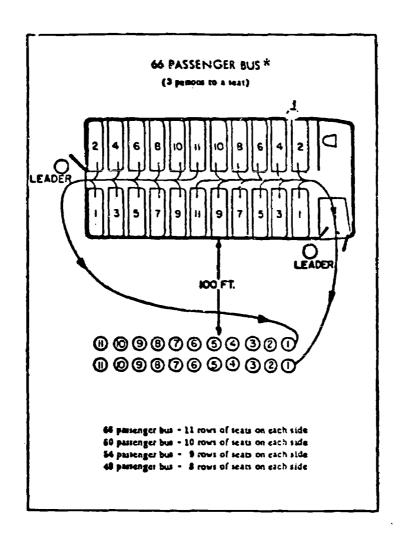


Figure 4. Front and Rear Door Evacuation Drill



^{*}From Standards for School Bus Operation (9)

INSTRUCTOR GUIDELINES	CONTENT
The use of kick-out wind- shields and pop-out windows (if available) should be practiced in case all doors are blocked. Drivers should know how to work them. The procedure should at least be demonstrated to students during Evacuation Drill.	4. Exit through side door alone or in combination with 1-3 above.*
:	
	÷
	*If applicable to your type of bus.

EVACUATION PROCEDURE

INSTRUCTOR GUIDELINES	CONTENT
	Explain to all students who ride the bus the procedure to be followed if it is necessary to evacuate a bus. The following is one recommended procedure that may be adapted to a local situation.*
	Suggested Front Door Evacuation Drill Conducted on School Grounds
	In the interest of safety, all drivers should conduct an emergency evacuation drill through the front door when they unload at the schools at least once a month with each busload of elementary-age children. This approach does not take any more time than the regular unloading procedures. Follow these steps:
	1. Stop the bus, set parking brake, and turn engine (remove key).
	Stand, open the door, face the children, and get their attention.
	3. Give the command: "Emergency drill, remain seated, front evacuation."
	4. Advise bus captain or designated student to guide passengers to assigned place of safety.
	a. A helper or a bus captain can be appointed each month to assist the driver in leading the students to a designated location on the grounds.
Explain use of bus patrol here, if applicable.	b. A second helper can be appointed to stand outside the front door to count and assist passengers as they leave the bus.
	*Adapted from state of California (2)



CONTENT

- 5. Standing between the first occupied seats, you will then turn and face the front of the bus.
 - a. Starting with the right-hand seat, tap
 the shoulder of the student nearest
 the aisle to indicate that those
 occupants shall move out. Say,
 "Walk--Don't Run--Use Hand Rails."
 - b. Hold your hand before the occupants of the left-hand seat in a restraining gesture.
- 6. When the pupils in the right-hand seat have moved forward far enough to clear the aisle, dismiss the occupants of the left-hand seats.
- Continue evacuation procedure as described, right and left seats alternately, until the bus is empty.
- 8. When the last seat is empty, walk to the front of the bus checking to see that everyone is out.
- 9. After you leave the bus, go to students and advise them of improvements to be made or tell them of the job well done, then immediately dismiss them for class. If there are students who are to continue on to another school, reload them and continue run.

INSTRUCTOR GUIDELINES	CONTENT
· ·	LOCAL ADAPTATION:
	Rear Emergency Door Evacuation
	or Side-Door Evacuation
	Rear emergency door evacuation or side-door evacuation works in reverse of the one just explained.
	Explain how the doors work and instruct students not
	to open them until you give the command to do so.
,	



IMPORTANT FACTORS IN EVACUATION DRILLS

INSTRUCTOR GUIDELINES

Discuss which things would be different from an evacuation drill in an actual emergency. What would driver/children have to do differently if bus were tipped on its side, for example? How will evacuation be different if children panic and refuse to move? What should be done with injured students? Encourage discussion and provide answers which conform to acceptable procedures.

CONTENT

- Safety of children is of the utmost importance and must be considered first.
- All drills should be supervised by the principal or by persons assigned by him to act in a supervisory capacity.
- You are responsible for the safety of the pupils; however, in an emergency the driver might be incapacitated so that he would not be able to direct the pupil emergency evacuation. School patrol members, appointed pupils, or adult monitors should assist in these drills. It is important to have regular student leaders available who know how to:
 - a. Turn off ignition switch.
 - b. Set emergency brake.
 - c. Summon help when and where needed.
 - d. Use fire axe or kick-out windows.
 - e. Set flags and flares.
 - f. Open and close doors, account for all pupils passing his station.
 - g. Help small children off bus.
 - h. Perform other assignments.
- Written consent from parent should be obtained before assigning a pupil as a leader.
- "Emergency drills" for school buses should be organized in a manner similar to fire drills held regularly in schools. School bus drills should be held more often during fall and spring months, preferably when bus arrives at the school building with the pupils.



CONTENT INSTRUCTOR GUIDELINES · Drills should be held on school property and not on bus route. · Types of bus drills held should be varied. · Drivers should stay in bus during evacuation drills. Be sure that the emergency brake is set, ignition off, keys removed, and transmission in gear. · Do not permit children to take lunch boxes, books, etc., with them when they leave the bus--getting the child off safely in the shortest time possible and in an orderly fashion is the objective of a school bus evacuation drill. Emphasize at least 100 feet · The pupils should go to a distance of at least 100 which would be a minimum safe feet from the bus in an "emergency drill" and remain distance in the event of a real emergency. there in a group until given further directions by the leader. · All children should be given an opportunity to participate, including those children who only ride a bus on special trips. · Each pupil should be instructed in the proper safety precautions while riding the bus and in drill procedure. · Instruct students in how and where to get help. Instructions and telephone numbers should be posted or otherwise carried in the school buses.



USING EMERGENCY EQUIPMENT*

INSTRUCTOR GUIDELINES

Add or delete any equipment not in use in your district. Have samples ready to pass around the class.



Demonstrate how to light fusee.

All trainees should have an opportunity to practice light-ing a fusee and placing it in roadway. Caution them to keep ignited end pointed away from their own and other's bodies.

Explain situations where placement may vary.

Caution: Explain that fusees if available, should not be used in an accident where gasoline is spilled or a gasoline line has ruptured.

CONTENT

When an emergency or accident happens, it's too late to learn how and where to use the emergency equipment. You should know the location and operation of:

- · FUSEES
- FLAGS/REFLECTORS
- HAZARD FLASHERS
- WRECKING BAR/FIRE AXE
- · FIRST AID KIT
- FIRE EXTINGUISHER
- 1. Fusees--as warning devices
 - a. Thirty-minute fusees encased in a metal container.
 - b. Located in driver's compartment.
 - c. How to light fusees:
 - (1) Grasp fusee in right hand.
 - (2) Twist and lift off cap with left hand.
 - (3) Strike fusee across cap.
 - (4) Point ignited end away from body.
 - d. Where to place fusees:
 - (1) Place one fusee at the side of bus on roadway side--safe distance from bus and oncoming traffic.
 - (2) Place second fusee approximately forty paces or 120 feet to rear of bus.



^{*}From state of Ohio (15)

INSTRUCTOR GUIDELINES		CONTENT
		(a) Placement distance should be greater if bus is on a hill or curve.
		(b) Not to exceed three-hundred feet.
		(3) Place third fusee forty paces or one- hundred feet to front of bus, again using greater distances if conditions warrant.
2	. Red	d flag and red reflectors as warning devices:
	a.	Three red flags and three red reflectors are located in the driver's compartment.
	ъ.	The flags are for daytime use.
	c.	The reflectors may be used both day and night.
Explain with diagrams on chalkboard or overhead transparency.	d.	Follow same directions for placement as explained above for fusees.
Explain when use of four-way	. Use	four-way hazard flashers with good judgment.
hazard is appropriate. Empha- size that hazard flashers are	. Wre	ecking bar.
not the bus red flashing warning lights which indicates	a.	Some buses presently in use are equipped
loading/unloading activity.		with a twenty-four inch wrecking bar (some buses may carry a small fire axe).
	b.	The wrecking bar/fire axe is usually
		located close to the driver's compartment.
		(1) Under front passenger seat
		(2) On the firewall
		(3) By driver's seat
	c.	Use the wrecking bar/axe to pry open doors,
		windows, etc., in the event of an accident
		where damage to vehicle prevents easy exit
1		by normal means.

CONTENT INSTRUCTOR GUIDELINES First aid kit The first aid kit should be located in the driver's compartment, be dustproof, welllabeled, and conform to federal standards. [Standards require a 16-unit kit for buses carrying up to forty-two passengers and a 24-unit kit for larger buses.] b. For use of first aid kit, see Advanced Unit B on First Aid. Replace any item used from emergency equipment supplies as soon as possible. 6. Fire extinguishers* a. Fire extinguishers are located in the driver's compartment. b. Classes of fires; different types of extinguishers. Portable fire extinguishers work by either cooling the burning substance or cutting off the supply of oxygen to the burning substance. Which type you use depends on what class of fire occurs. Most buses are equipped with a dry chemical, stored pressure type of extinguisher. Classification of Fires Refer to Figure 5. Accepted standard practices separate fires into three general classes. Study the chart in Figure 5.

*Adapted from state of California (2)



CLASS A	CLASS B	CLASS C
Fires of ordinary combustible material where the "quenching" and "cooling" effects of quantities of water, or of solutions containing large quantities of water, is of first importtance. EXAMPLES: Fires in wood, textile fabrics, rubbish, etc.	Fires in flammable liquids, petro-leum products, etc., where the blanket-ing or "smothering" effect of the extinguishing agent is of first importance. EXAMPLES: Fires in gasoline, oils, and greases in tanks or containers, open vats, or running freely on floors or ground.	Fires involving electrical equip- ment where the use of a "non-conductor" extinguishing agent is of first impor- tance. EXAMPLES: Fires involving electrical switch- boards, motors, or wiring.

Figure 5. Classes of Fire



CONTENT

Most buses are equipped with extinguishers large enough to have an 8-B-C rating; 8-B-C means to be large enough to extinguish a fire of B or C class covering 8 square feet of surface.

The two basic fire extinguishers commonly used are the ${\rm CO}_2$ and dry powder type.

CO₂ Extinguishers. CO₂ stands for carbon dioxide and these extinguishers are effective on small surface fires of Class A, on moderate fires of Class B, and on electrical fires of Class C since the gas is a nonconductor.

They are particularly effective on flammable liquid fires--alcohol, carbon bisulphide, and similar liquids--which will not support foam. However, they are not effective on deep-seated fires of ordinary combustible materials due to the lack of moisture. The gas or "snow" these extinguishers put out is non-injurious to material. But note that, due to the extreme cold temperature it reaches upon discharge, it will, if held too closely to the skin, cause a burn or frostbite effect. The duration of continuous discharge ranges from one-half to one minute, depending upon size of extinguisher.

This type of extinguisher has a maximum range of 8 feet, but best results are obtained by playing the discharge as close to the fire as possible. The discharge should be applied first to the bottom edge of the fire and gradually progressing forward or upward moving the discharge cone very slowly from side to side.

You are explaining the CO₂ fire extinguisher here. If you do not have this type, skip this part.

Indicate the seal and show how to examine extinguisher for seal damage.



Set up a simulated fire condition by building a shallow dirt wall around a small outside area. Pour in kerosene and ignite.

Have a CO_2 fire extinguisher in class to demonstrate these 10 steps.

Emphasize "upright."

"Many people, in the excitement of a fire, forget to remove the pin. Many handles have been bent by trying to squeeze handle without removing pin."

CONTENT

The discharge should continue to be directed on the burned substance or surface to deposit carbon dioxide snow even after the fire has been extinguished. This will prevent possible reflash or backflash by cooling the hot surface and any glowing material or hot spots present.

To operate:

- 1. Remove from bracket.
- 2. If possible, stand upwind from burning material to prevent standing in the smoke and heat. This also will give you better advantage using the wind, if any, to carry the discharge material over the burning area.
- 3. Hold extinguisher in <u>upright position</u>.
 Due to construction of cylinder, extinguisher should not be laid on side to operate.
- 4. Remove hose or point horn toward the fire.
- 5. Remove safety lock pin by breaking the seal.
- 6. Squeeze to operate discharge valve.
- 7. Direct cone nozzle as desired. Care must be taken to prevent reflash. Care also must be taken not to walk into unburned material that could catch fire in a backflash and cause injury to you.
- 8. Close nozzle as soon as conditions permit.
- Continue to open and close valve as desired.



INSTRUCTOR GUIDELINES CONTENT 10. Show sample of a dry-powder extinguisher with a CO, cartridge if you use this type. If not, skip this part. CAUTION: Do not inhale the powder. extinguisher. operator.

Demonstrate



Replace safety lock pin. Any fire extinguisher, regardless of how long or how much discharge was used out of it, should be recharged or replaced with a substitute after use.

Dry-powder Extinguisher (CO₂ Pressurized). dry-powder type of extinguisher consists of a charge of specially prepared dry powdered sodium bicarbonate with a cartridge of inert gas, such as carbon dioxide, to provide the expelling force. Discharge is in the form of a cloud of powder together with gas.

The range of the cloud may extend up to 25 feet horizontally depending on size of extinguisher and type of nozzle. In contact with fire, the powder gives off additional carbon dioxide gas with its smothering effect. Discharge should be directed at the base of the flames. On flammable liquid fires, best results are obtained when the discharge is directed in a sweeping motion as with carbon dioxide

Dry chemical extinguishers are effective on small fires of Class B, on electrical fires of Class C, and may be effective on small surface fires of Class A. Again, it is best to be upwind whenever possible so as to get greater coverage and protection for the

To operate:

- 1. Remove from bracket.
- 2. Approach fire upwind.
- 3. Hold extinguisher in upright position. Due to construction of cylinder, extinguisher should not be laid on side to operate.



INSTRUCTOR GUIDELINES	CONTENT
	4. Remove safety lock pin by breaking seal.
	Push lever down to break seal in cartridge.
	 Squeeze nozzle handle. Direct flow of chemical to base of fire.
	7. Use at will and release and resqueeze nozzle as needed.
	8. Replace safety pin.
	9. Replace or recharge immediately after use.
Show sample of this type and explain what to check for and how to operate.	Dry Chemical Extinguisher (Air Pressurized). There is another type of dry chemical extinguisher which is commonly used. Again, they are filled with dry powder, finer than face powder in some cases. A gauge is mounted at the top of the extinguisher indicating the air pressure. The gauges are usually divided into two areas of green and red indicating low and high pressure. If the needle on the indicator stays in the green area, it is properly charged.
Demonstrate using a dry chemical, air pressurized	To operate:
extinguisher.	 Remove from bracket Hold in upright position. Due to construction of cylinder, extinguisher should not be laid on side to operate.
	3. Pull safety pin by breaking seal.
	 If possible, stand upwind from burning material to prevent standing in smoke and heat.
	5. Squeeze handle to discharge the powder.



CONTENT INSTRUCTOR GUIDELINES Do not walk into unburned material that could catch fire in a backflash and cause injury to you. 7. Turn on and off as desired to control the fire. 8. The fire extinguisher, regardless of the extent of use, should be recharged or replaced with a substitute immediately after use. HOW TO GET FIRE EXTINGUISHERS SERVICED Explain any local policies on Fire extinguishers are required to be serviced usage and maintenance of this each year preferably before school starts in September. equipment. The servicing must be done by a properly licensed person. WHAT TO DO AFTER THE FIRE IS OUT Who to call--How to report damage--

LOCAL POLICIES

INSTRUCTOR GUIDELINES	CONTENT
	You are in full charge of the bus at all times. Knowing proper emergency procedures, emergency evacuation procedures, and accident scene procedures is a must: These areas of responsibility deal directly with the safety and care of your passengers in the event of an accident, as well as other emergency situations which may arise.
Give example:	As the school bus driver, you must know:
WHAT: Bus evacuation	A. What to do
HOW: Exact procedure for evacuating passen-	B. How to do C. When to do*
WHEN: In case of fire, other immediate danger to pas- sengers	Here are your school district's policies on what the driver is to do about eight issues which may arise in an accident/emergency situation.
Summarize and present your school district's policy on each of these eight issues. Emphasize what the driver is supposed to do. Use action verbs. For example, "send responsible student to nearest telephone." Also discuss rationale for each policy, acceptable deviations and areas where driver judgment is involved. List the bus driver's actions in steps where appropriate.	

INSTRUCTOR GUIDELINES		CONTENT
	ISSUE 3.	Property damage to/by school bus.
	ISSUE 4.	Arrangements for tow/repair of school bus.
Stress that driver must follow local policies to the letter and that he is responsible for passengers and must protect them at all times. One of the big dangers when involved in an accident is to allow passengers to get out of the bus and mill around on the roadway. If driver has to evacuate the bus because of fire danger	ISSUE 5.	Arrangements for transportation of passen- gers from scene of bus accident or breakdown
to ther reasons, be sure that the students are moved to a safe location off the roadway and kept under control until he or she is given further instruction from an officer or school official.		

INSTRUCTOR GUIDELINES	CONTENT				
ı	ISSUE 6.	Reporting procedures for disciplinary action, accidents/breakdowns.			
	ISSUE 7.	Interactions with pupils and their parents for purposes of discipline.			
	•	Procedures for reporting to police regarding accidents, drug use, etc.			
administer Core Unit C Review Questions. Situational Letails should be filled in to make test as realistic as possible. Responses can be cerbal, except where demonstration is indicated. Each trainee must satisfy the instructor as to whether his inswers conform to appro-					

CORE UNIT C REVIEW QUESTIONS--PART 1

1.	When you are involved in an accident, under what circumstances must you submit an accident report to state enforcement officers?
2.	What emergency devices are carried on your bus?
3.	When and where should school bus emergency evacuation drills be conducted?
4.	When you operate a fire extinguisher, where should you direct the discharge? What type of motion should you use in directing the discharge? In what position should you hold the extinguisher?
5.	What is the major cause of school bus accidents?



6.	What is the most dangerous part of the bus trip in terms of potential student injuries?
7.	How does driving at night increase the potential for accidents?
8.	What is the most common mechanical failure on school buses?
9.	As a school bus driver, the law says you have a <u>duty</u> to conform to a standard of which will protect your passengers from harm.
10.	If you <u>fail</u> to conform to the standard of conduct, and your conduct is connected to someone's injury, you could be liable for
11.	The bus driver's standard of conduct is the same as the care used by "a reasonably careful person," except when he is transporting very young children. Then he may be expected to act with a (higher or lower?)
12.	Name two emergency conditions when you must evacuate the bus.
	a. b.



13.	Why should you <u>not</u> discuss an accident with anyone except school
	officials and law enforcement officers?
٠.	
14.	How should you arrange for the transportation of your passengers
	from the scene of a bus accident or breakdown?
15.	A gasoline fire is a Type fire.
	A fire in the seat upholstery is a Type fire.
	An electrical fire is a Type fire



CORE UNIT C REVIEW QUESTIONS -- PART 2

1.	Here is an emergency situation: Your bus has been hit by a motorist
	approaching from the left; the front end of the bus is pushed into a
	telephone pole. The engine is smoking. No other motorists are visible.
	Your bus is half full of passengers. None appear to be injured, although
	some are crying. The motorist who struck you claims he had the right-
	of-way. You think he ran a red light. What would you do?

а.	Indicate	the	nlacement/use	Ωf	warning	devices	to	protect	the	ccene

b. Describe evacuation procedure, if you decide to evacuate students.

c. Describe accident procedure, including gathering information from motorist.



2. You have a flat tire on the morning route to school. Describe what you would do.

3. Your instructor will "set" a Type B fire. Use the correct extinguisher to put out the fire.



CORE UNIT D

BUS MAINTENANCE AND INSPECTION

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OBJECTIVES

By the end of this unit, the students should be able to:

- 1. Identify interior and exterior maintenance tasks.
- 2. Perform a pretrip inspection of a bus.



OVERVIEW

INSTRUCTOR GUIDELINES

The number and extent of various maintenance tasks will vary, depending on the district's (or bus contractor's) particular arrangement. Adjust this unit to suit the degree of responsibility required of your drivers.

Keep in mind that Federal Standards <u>require</u> that a pretrip inspection of the bus be made each time it is driven.

More details of bus mechanics and preventive maintenance are covered in Advanced Unit H.

CONTENT

Regardless of the engineering skill or workman-ship incorporated in a school bus, it cannot continue to deliver maximum safety, economy, and dependability unless it is properly maintained. Although the repair of school buses is wisely left to a skilled mechanic, you can do much to aid the mechanic in locating any trouble and often prolong the life of the vehicle by doing routine maintenance tasks and by daily inspections.

Reasons for maintaining a school bus in a clean, sanitary condition include:

- 1. To safeguard the health of the pupils.
- To reduce the possibilities of accidents among the pupils that might be caused by falling, tripping over objects, or slipping on the floor.
- 3. A clean bus induces a better attitude among the students. If the driver takes pride in keeping his vehicle clean, the children will respond in the same manner.
- 4. The school bus is about the only visual contact many people have with the school system. If they see a clean, well maintained school bus, it will give them a favorable impression of the school as a whole. A dirty, poorly maintained bus will have just the opposite effect.
- 5. To prolong the life of the bus.



GENERAL MAINTENANCE TASKS*

INSTRUCTOR GUIDELINES	CONTENT
	DAILY
If maintenance tasks in your area are performed by someone other than the bus driver, delete, add, or make substitutions, where appropriate. Explain how to check for each. Take trainees out to an actual bus, one with several defects. Point out results of vandalism, if any. Demonstrate any of the unfamiliar maintenance tasks. Answer any questions trainees may have about maintenance	 Check inside of the bus for mislaid books and clothing; store them to be returned to their owners on the next trip. Sweep the floor of the bus, being especially aware to sweep water on floor out of bus in the wintertime to prevent its freezing. Sweep steps of bus. Check seats of bus for damage to them. Check sides of bus and backs of the seats for
tasks.	pencil/pen marks; clean these.
	6. Readjust mirrors, driver's seat, and vents.
	7. Switch off warning lamps.
	8. At the end of the day, check the electrical switch to help prevent a dead battery.
	9. Follow authorized procedure for filling gas tank as many times per week as necessary.
	10. Follow authorized procedure for having oil filled when indicated.
Follow guidelines for DAILY	WEEKLY
maintenance tasks.	1. Wash the floor using a disinfectant and mop.
	2. Scrub all parts of the seats with soap and warm water.
	3. Wash windows and sills.
i	4. Check operation of windows.
	5. Remove and clean interior lights.
	*From NHTSA Task Description (14)

6. Wipe off all interior surfaces not otherwise cleaned. 7. Check condition of first aid kit and fire extinguisher. 8. Repair minor damages to interior of bus. 9. Check outside of bus for dents and scratches. 10. Clean all exterior lights and mirrors. 11. Clean license plates. NOTES:	INSTRUCTOR GUIDELINES	CONTENT		
		7. Check condition of first aid kit and fire extinguisher. 8. Repair minor damages to interior of bus. 9. Check outside of bus for dents and scratches. 10. Clean all exterior lights and mirrors. 11. Clean license plates.		



INSTRUCTOR GUIDELINES

You may provide a job aid for the driver to help him remember the items he must inspect. The sample checklist for PRETRIP INSPECTION (see Figure 1) is an acceptable format. You may prepare such a job aid (with additions, where appropriate) on a handout to be filled out as the driver inspects each item. If you do provide such an aid as a handout, also show a filled in example and explain it's use. Emphasize the benefit to the driver not having to remember each item to be checked. The recommended procedure can be likened to a pilot performing his preflight check of the aircraft before takeoff. Much of the preflight check is a visual inspection, and the same procedure can be equally effective in a school bus precheck.

Refer to Figure 2. After you explain the inspections, have trainees proceed to a real bus to practice checking out the items. Supervise the inspection, pointing out defects where necessary. Have trainees compare and discuss their checklists. Have a model checklist (for the bus they inspect) prepared in advance. Trainees can compare their inspection to the model, making sure they've detected any and all defects.

CONTENT

You must inspect your bus before you put it into operation for a day's work. Such an inspection will help insure the safety of both the pupils and the driver. This practice will also decrease the maintenance costs of the pupil transportation program. Make this daily inspection a matter of routine. The few minutes you invest may pay rich dividends in the savings of lives and property.

PRE-STARTING INSPECTION

- 1. Take a good overall look at the bus.
 - a. Oil, gasoline, or water leaks.
 - b. Vandalism.
- Open hood--make sure that safety latch, rod, or hinge is in holding position.
 - a. Check oil level.
 - b. This is the most logical time, as all the oil has drained to the crankcase and an accurate reading can be made.
 - c. Keep oil above "add oil" line.
 - d. Be certain the oil level is not overly full as this may indicate a foreign substance in the oil.
- Remove the radiator cap and check liquid level.It should be above core level.
- Check fan belt for proper tension, cracks, and frayed edges.
 - a. Most fan belts will operate efficiently if not more than 1/2" give is maintained.



^{*}Adapted from state of Ohio (15)

DRIVER'S PRETRIP CHECKLIST*

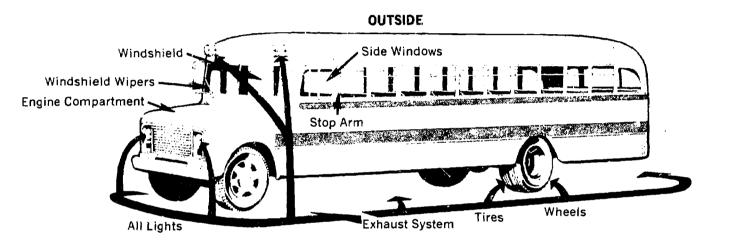
INSIDE	2	OUTSIDE
()	Parking Brake	Front
Start	Engine	() Headlights
	0il Pressure (Gauge)	() Clearance Lights
	Ammeter	() Identification Lights
` '	Air Pressure (Gauge)	() Turn Signals & 4-way Flashers
	or Vacuum (Gauge)	() Alternately Flashing (Amber and Red) Lights
()	Low Air Warning	() SCHOOL BUS sign visible
	Air pressure below 40 psi, check on pressure buildup. Air pressure above 60 psi,	Left Side () Sidemarker Lights
	deplete air until warning	() Reflectors
	device works.)	() Wheels (Lugs) & Tires
	Windshield Wiper & Washer Heater-Defroster	() Emergency Door (if so equipped)
	Mirrors	,
` '	Instrument Panel (Tell-Tale	Rear
()	Lights or Buzzers)	() Startfalts
()	Horn	() Stoplights
()	Emergency Door (Buzzer)	() Classical Lights
()	Apply Rear Wheel Brakes in	() Clearance Lights () Identification Lights
	Emergency (Driver Manual Control for Air Brakes)	() Reflectors
()	Windows	() Alternately Flashing Red Lights
()	Steering Wheel-Play	() Emergency Door or Window
()	Warning Devices, Fire Extin- guisher, First Aid Kit,	() SCHOOL BUS sign visible
	Flares, Flags, Reflectors	Right Side
()	Turn on all Lights including 4-way Flasher	() Sidemarker Lights
()	Other:	() Reflectors
• •		() Entrance Door
		() Wheels (Lugs) & Tires
		INSIDE
		Stop Engine
		() Apply Service Brakes and Hold Air loss should not exceed 3

Instructions: Place a checkmark (\checkmark) before each item if satisfactory. If an item is not satisfactory, leave it blank until corrected. Write beside "Other" any other item that should be called to the attention of the service manager.

^{*}Adapted from state of Arizona (1)



School Bus Drivers Five-Minute Daily Walk-Around



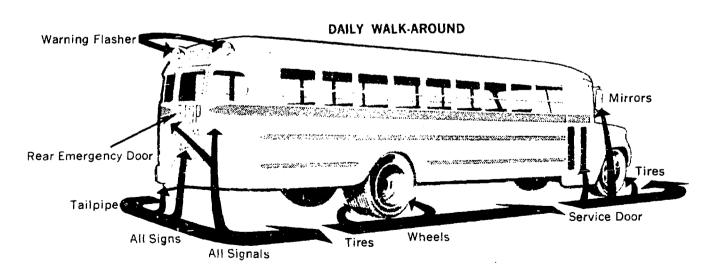


Figure 2. Pretrip Inspection



INSTRUCTOR GUIDELINES

Present guidelines about what to do if bus "fails" the inspection. When and how should driver request another bus?

Discuss what to do (DON'T DRIVE) in the case where the listed items are not satisfactory (e.g., radiator not full, loose wire). Specify when mechanic's help is required and when driver can make adjustment to remedy situation.

CONTENT

- b. A run-down battery in most cases is traced to a loose fan belt and/or a driver's failure to observe his instrument panel occasionally.
- 5. Look over engine for any loose wires, tools left in engine compartment, and any excess oil.
- 6. Close the hood.
- 7. Wipe windshield, turn signals, and warning lights clean.

NOTE: Windshield must be clean before turning on wipers.

8. Set parking brake. Start the engine, using proper engine starting procedures. In allowing the engine to warm up, accelerator should be set for a fast idle. <u>Do not race the engine</u>, as stiff oil will not lubricate fast enough; this can cause bearing damage.

FIRST OUTSIDE-INSIDE INSPECTION

- Turn on left directional light, marker lights, and headlights (high beam).
- From inside of bus, check operating condition of dash-mounted turn indicator signal, high beam indicator, and instrument panel light.
- 3. From outside of bus, check left directional signal, marker lights, and headlights. Check for intensity of light, condition of lens, and dark spots on sealed beam unit.



INSTRUCTOR GUIDFLINES	CONTENT
•	SECOND OUTSIDE-INSIDE INSPECTION 1. Turn on right directional lights, warning lights, headlights (low beam), and passenger compartment lights.
	From inside of bus, check operating conditions of switches and dash-mounted indicators.
	3. From outside of bus, check right directional signal, flasher lights, taillights, and head-lights (low beam). Check for intensity of light, condition of lens, and dark spots on sealed beam units.
	4. Wipe taillights, stoplights, and headlights clean.
	5. Tirescheck for inflation (use hammer or bar) and general condition.
	6. Wheel boltscheck visually for tightness, and rust dust around edge of bolt or nut. This is a good indication of a loose wheel bolt.
	7. Emergency doorcheck the opening and closing and see that the emergency buzzer is operating.
	8. Windows and mirrorscheck for cleanliness, cracks, or breaks. Good visibility should always be maintained by clean windows and mirrors.
	9. View underneath of bus.
	a. Oil or grease leaks. b. Exhaust system.

c. Springs and hangers.

d. Body clamps.

INSTRUCTOR GUIDELINES CONTENT

10. Body--check general condition noting any scratches or dents as well as the legibility of bus markings. Many times these markings are coated with so much road dust that they cannot be read nor can it even be distinguished that the vehicle is a yellow school bus.

INTERIOR EQUIPMENT INSPECTION

- 1. Emergency equipment.
 - a. Held securely in place.
 - b. Contents of first aid kit.
 - c. Contents of fire extinguisher—No e the position of the pressure gauge indicator. The needle should always be in full charge area.
 - d. Flags, fusees, and/or reflectors.
 - e. Wrecking bar/fire axe.
- Check the horn loudness and operating condition of horn button.
- 3. Windshield and wipers.
 - a. Cleanliness of windshield inside.
 - b. Condition of wiper blades and their operation.
 - c. Wiper motor operation.
- 4. Dashboard gauges.
 - a. Check operating condition and visibility of all gauges.



INSTRUCTOR GUIDELINES CONTENT b. Attention should be given to these gauges for their proper function at all times when engine is in operation. 5. Check four-way warning hazard switch (when applicable). 6. Brakes--check: The holding power of the parking brake. ъ. The holding power of the parking and/or emergency air brake (when applicable). c. For full pedal on foot brake and the position the pedal holds under continued pressure (hydro-vac or hydraulic systems). d. Air brakes--Depress foot pedal and listen for air leaks. e. Brake lights working. This can be checked by having the rear of the bus near a building or by noting the movement of the ammeter hand. Brake operation before leaving parking lot. 7. Drain water from air storage tank daily. Manual--Use the petcock on the wet-tank drain once daily, preferably at the end of the trip. b. Moisture ejectors will operate: (1) Automatically. (2) Manually--with button on the dash. Local policy: Add local policy to make inspection procedures acceptable to your district.



INSTRUCTOR GUIDELINES

CONTENT

- 8. Condition of seats and floor.
- 9. Writing on seats and inner skin of body.
- 10. Emergency door operation from inside and wipe rear warning lights.
- 11. Clutch.
 - a. Chattering or grabbing clutch.
 - b. The amount of free pedal.
 - c. A clutch that does not release properly.
 - d. A slipping clutch.
- 12. Check body instrument panel.
- 13. Steering—When leaving the parking area, check for stiffness and free or loose movement.

NOTES:

Explain local procedure for maintenance requests. Refer to Figure 3 for a sample School Bus Driver's Maintenance Request Form. Substitute your own form, if more appropriate. Provide an example of a filled in form.

Administer Unit D Review Questions. Provide feed-back. For any trainees who do not meet criterion, have them review unit and answer questions again.



SCHOOL BUS DRIVER'S MAINTENANCE F.EQUEST*

Bus No.	_		Date
Driver's Name			Mileage
Item	Repair	Adjust	Comments
	,		:
		ŀ	
	Mechanic's	Comments:	
		Approved •	
		approved	(Supervisor's Signature)
			Date

Figure 3. Sample Report Form



*From state of Ohio (15)

Core D-15 /D-/6

CORE UNIT D REVIEW QUESTIONS

1.	During the Pretrip Inspection, you should check the inside and of the bus.
2.	Suppose your ammeter was registering a discharge during your pretrip inspection. What should you do?
3.	How do you check for proper tire pressure?
4.	If it's raining or snowing, what condition on the inside of the bus should you check for?
5-7.	In addition to the pretrip inspection, list three <u>daily</u> maintenance tasks you should perform. 5.
	6.
	7.
8-10.	List at least three weekly maintenance tasks you should perform.
	9.
	10.



CORE UNIT E

DRIVING FUNDAMENTALS

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OBJECTIVES

By the end of this unit, the students should be able to:

- 1. Identify basic driving maneuvers.
- 2. Discuss state laws and local policies related to basic driving maneuvers.
- 3. Demonstrate basic maneuvers behind the wheel of a bus.



OVERVIEW

INSTRUCTOR GUIDELINES	CONTENT
	In past years, accidents involving school buses were caused by the school bus driver in about fifty percent of the cases. In those accidents, drivers did not follow proper procedures of driving fundamentals. You have entrusted to you the lives and safety of a human cargo that cannot be measured in terms of dollars and cents. The purpose of this unit is to teach you the basic skills necessary to operate buses safely and efficiently in transporting this valuable cargo. Not only will you learn the procedures for basic driving skills, but you will practice each skill correctly to become proficient. Through practice, each correct basic procedure will become a habit and will improve your performance as a school bus driver.
Specific similarities and differences between driving a car and driving a school bus are covered in this unit. As an introduction, point out the general similarities (e.g., must obey rules of the road). Provide or ask for specific examples from class. Confirm or correct their examples.	→
Point out differences (e.g., wider turning radius, greater stopping distance, handling that is changed by size and weight of bus). Provide/ask for examples as above.	

Core E-3/8-4

GETTING READY TO DRIVE*

	
INSTRUCTOR GUIDELINES	CONTENT
Explain reason for this sequence and add any state or local specifications, e.g., specified viewing distance in mirrors, etc.	To be a good bus driver, you must position yourself in control; you must be able to reach and operate the controls in comfort and be able to see the areas all around the bus. 1. Adjust seat so that your feet can operate floor controls easily. 2. Adjust (or check) all mirrors for optimum rear vision of traffic behind the bus, and for proper vision to both sides and across
	4. Go through shift pattern with clutch depressed, if bus make is unfamiliar. REASONS AND LOCAL SPECIFICATIONS: *Adapted from state of Ohio (15)



STARTING THE ENGINE

INSTRUCTOR GUIDELINES	CONTENT
, '	The procedure used in starting a bus engine must become a matter of routine. It must incorporate principles of safety and be performed in keeping with good engine preventive maintenance practices.
	1. Set parking brake to keep bus from moving.
	Depress clutch pedal to disengage engine from transmission.
	3. Shift gear lever into neutral position.
	4. Turn on ignition key to complete electric circuits.
	 Engage starter switch with clutch depressed and gear shift in neutral.
Explain difference when bus has automatic choke, if applicable.	a. Use hand choke if necessary and avail- able. Over choking will cause car- buretor flooding.
	b. Use foot accelerator sparingly. Pump- ing will cause carburetor flooding.
	c. Bus engines will vary widely in their carburetor sensitivity; therefore, do not hesitate to ask the supervisor or bus mechanic for special techniques in starting a particular bus.
Add instructions or tech- niques unique to trainees' particular types of buses.	NOTES ON YOUR PARTICULAR TYPE OF BUS:
	6. Warm up engine at fast idle; do not race the engine.

Core E-7

INSTRUCTOR GUIDELINES

Refer to Figure 1 for diagram of appropriate readings. Explain consequences of unsatisfactory instrument readings. Use actual pictures of instruments if you want closer simulation of actual bus instrument panel.

Emphasize that if instruments are not registering within an acceptable range, DON'T DRIVE. Contact the supervisor or mechanic.



CONTENT

- 7. Check instruments to see that they are registering properly:
 - a. Ammeter registering in plus direction.
 - b. Oil gauge at middle of instrument.
 - c. Temperature gauge at midpoint.
 - d. Gas gauge registering <u>full</u> (or enough to complete run).
 - e. Vacuum gauge light is <u>not</u> on (for hydraulic brakes).
 - f. Air pressure gauge light and/or buzzer are <u>not</u> on (for air brakes).

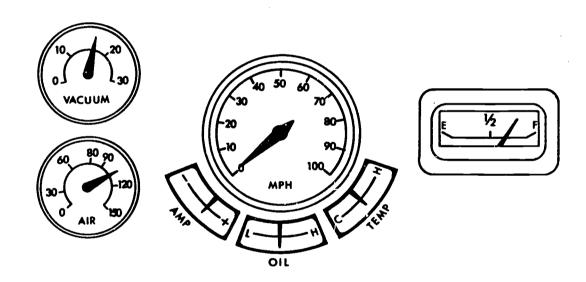


Figure 1. Ideal Instrument Readings



SHIFTING GEARS AND ACCELERATING

INSTRUCTOR GUIDELINES

CONTENT

Explain that they will learn to shift without taking eyes off road. Gear shifting is a phase of bus driving which requires skill and practice. You must learn the best range of speed in changing gears upward and downward. You must shift the gears without losing your view of the road. Synchro-mesh transmissions have alleviated most of the gear clashing. Generally, buses are equipped with a four- or five-speed transmission.

- 1. Know the gear positions.
 - a. Check chart on lever knob or on dash.
 - b. Ask mechanic.
- 2. Depress clutch pedal.
- 3. Shift gear lever into starting gear.
 - a. For average terrain and load, this should be second gear.
 - b. Load and/or terrain may dictate the use of first gear.
 - c. Never start out in a gear higher than second as this places undue load and wear on the engine and clutch.
- 4. Depress foot brake.
- 5. Release parking brake lever. If ratchet type, pull brake lever slightly back to release pressure.
- 6. Release clutch gradually to friction point and hold. At this point, you will have the clutch just at the point of friction and the foot brake on and ready to release. Release foot brake.
- Depress accelerator. Hold point of clutch friction and slightly depress accelerator to increase the power to prevent stalling.

Ask whether any trainees do not know how to drive a "standard shift" car. They will need extra practice in the procedures of shifting gears. Emphasize the simultaneous occurrence of releasing clutch and accelerating until bus is rolling (Step 8).



INSTRUCTOR GUIDELINES	CONTENT
	8. Release clutch.
	a. Slowly and gradually release the clutch to the remainder of pedal travel and at the same time slowly and gradually increase the acceleration.
	b. Remove foot from clutch pedal com- pletely.
	c. Pick up engine speed before shifting to higher gear.
	9. Shift to next higher gear.
	 Depress clutch pedal and release accelerator.
	b. Shift to next higher gear.
	c. Release clutch smoothly but more quickly than in starting gear and depress accelerator smoothly and quickly.
	(1) To prevent loss of vehicle speed.
	(2) Do not race the engine and slip the clutch.
	d. Remove foot from clutch pedal.
Refer to Figure 2. Explain exceptions.	e. Proceed in this gear until proper vehicle speed is reached for shifting to next gear.
Λ	10. Repeat Step 9 procedures until the bus is in cruising gear.
	11. When practical, don't skip a gear in up- shifting or downshifting as this causes undue engine and clutch wear.

Approximate M.P.H. to be reached before upshifting or downshifting. M.P.H. may vary slightly depending on make of engine, transmission, gear ratio, and terrain.

Upshifting		Downshifting		
From 1 to 2 Gear	1-5 м.р.н.	From 5 to 4 Gear 30-35 M.P.H.		
2 to 3 Gear	5-12 M.P.H.	4 to 3 Gear 25-30 M.P.H.		
3 to 4 Gear	12-20 M.P.H.	3 to 2 Gear 5-10 M.P.H.		
4 to 5 Gear	25-30 м.р.н.	2 to 1 Gear Stop		

Figure 2. Appropriate Gears for School Bus Speed



Give symptoms of lugging and excessive engine RPMs. Discuss extra power needed on steep grades. CONTENT 12. Shift up or down as may be necessary to prevent engine lugging or excessive engine RPMs.

13. In going down a hill, shift into the gear that would be used in going up the hill.

DOUBLE CLUTCHING

INSTRUCTOR GUIDELINES	CONTENT
Explain briefly the difference between synchromesh and nonsynchromesh transmissions.	Synchromesh transmissions have almost eliminated the need to double clutch. Shifting the gears on nonsynchromesh transmissions is done faster and smoother by double clutching. This process coordinates the engine speed and transmission speed for non clashing of gears. Double clutching aligns the gears for easy upshifting and downshifting. The gears should never be forced by improper timing of the shifting process. Reclutching and speeding up the engine will in most cases prevent excessive clashing. Never allow the engine to pull heavily going upgrade, on a turn, or on a curve. And, don't let the engine over-race on a downgrade.
Demonstrate how to double clutch.	 Double clutching, upshifting. a. Depress clutch pedal and release accelerator. b. Shift gear lever to neutral position. c. Release clutch pedal momentarily to engage clutch.
	 d. Depress clutch pedal and shift to next higher gear. e. Release clutch and accelerate engine at the same time.
Double clutching is often recommended even for buses with synchromesh trans-missions.	 2. Double clutching, downshifting a. Depress clutch pedal and release accelerator. b. Shift gear lever to neutral position. c. Release clutch pedal momentarily to engage clutch and accelerate engine
	to more than original speed.



INSTRUCTOR GUIDELINES	CONTENT		
	d. Depress clutch and shift to next lower gear.		
	e. Release clutch pedal gradually and accelerate engine to match the speed of vehicle.		
	3. Related items of double clutching		
	a. The double clutching procedure may be slow or fast depending upon the type of bus.		
Explain when it may be necessary to downshift more than two gears.	b. Normally, downshifting two gears is sufficient.		
	 c. Double clutching requires continuous practice. 		
	d. Synchromesh transmissions may be double clutched.		
Add any further explanation, demonstration, or diagrams you feel are necessary. One suggestion is to have trainees "go through the motions with their hands and feet."			

SHIFTING AUTOMATIC TRANSMISSION

INSTRUCTOR GUIDELINES

Add any special instructions you may have for automatic transmissions. Use an experienced driver to discuss some of the major differences between automatic and standard transmissions.

CONTENT

Some buses are equipped with automatic transmissions and you should know how to operate them.

- 1. Know the shift positions.
- 2. Depress foot brake.
- Move selector lever into forward or drive position.
- 4. Release parking brake.
- Release foot brake and depress accelerator.
- 6. As speed of bus increases, the transmission will automatically shift to the next higher gear until reaching cruising gear.
- 7. Downshift for additional power.
 - a. Depress accelerator to the floor firmly. This will cause transmission to downshift one gear.
 - b. Move selector lever to next lower position.



STEERING AND TURNING

INSTRUCTOR GUIDELINES

CONTENT

Provide road diagrams with turning radius indicated for turns.

OPTION:

Show Ford time-lapse filmstrips "Intersection Maneuver," with accompanying records and student workbooks. See AV Directory (71). To be classified as an expert driver, you must be able to assume the correct steering position and make all the turning maneuvers correctly and smoothly. Learn the correct procedures necessary to prepare for the turn, make the turn, and re-enter the traffic pattern. When you're confronted with an unusual turn or turnaround, turn with extreme caution. The raising of speed limits and the super-highway systems upon which the school buses may travel, forces you to use added skills and judgment in making turns properly and safely.

- 1. Steering positions.
 - a. Grip the steering wheel with both hands.
 - b. Left hand at approximately 10 o'clock position.
 - c. Right hand at approximately 2 o'clock position.





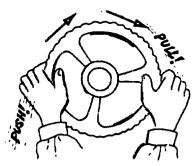
- d. Hands on outside of steering wheel and thumbs on top or outside of wheel.
- Focus eyes on road ahead as well as all around the bus.
 - to obtain the "big picture."



INSTRUCTOR GUIDELINES b. 3. The meno pull

CONTENT

- b. Look ahead; use left side, right side and rearview mirrors.
- 3. The push-pull steering method is recommended for school bus drivers. One hand pulls and the other hand pushes.



- 4. Hand over hand method may catch thumb in clothing, safety chain on the wrist watch, bracelets, etc., which are hazards to steering.
- 5. Preparing for turns.
 - a. Check traffic to the front and rear of the bus.
 - b. Give proper signal to move vehicle into proper lane.
- 6. Making right turn.
 - a. Give proper right hand turn signal.
 - Reduce speed and downshift to proper gear needed to execute turn.
 - c. Position bus in right of the lane.
 - d. Check for clear right of way.
 - Traffic signals, signs, pedestrians, or vehicles.
 - (2) Use both outside mirrors.

Discuss danger of going into a turn too fast.



CONTENT

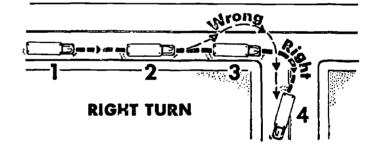
- e. Execute the turn.
 - (1) Make turn smoothly without strain on the engine.
 - (2) Never shift gears during a turn.
 - (3) Check right mirror while executing turn.
 - (4) Enter the right most lane available and check turn signal for cancellation.
 - (5) Steer wheels back into position do not let steering wheel spin wheels back into position.

Explain what to do if there is oncoming traffic on road into which driver is making the right turn.

Discuss hazards of swinging left to make right turn (shown as the WRONG way in the illustration).



The RIGHT and WRONG way may depend on road conditions. If driver doesn't have a clear view of the road he's turning into, and can clearly see that no one is approaching in oncoming lane of the road he's on, it may be desirable to swing left before turning right. Discuss local conditions where this practice may be "RIGHT." Of course the ideal turn is to turn the corner to the right without going into either oncoming lane.



NOTES:



CONTENT

7. Making left turn

- a. Give proper left hand turn signal.
- b. Reduce speed and downshift gear.
- c. Position bus to the left edge of the lane.
- d. Check for clear right of way.
 - (1) Traffic signals, signs, pedestrians, or vehicles.
 - (2) Use both outside mirrors.
 - (3) If necessary to stop, keep front wheels straight and brake pedal depressed.
 - (a) Prevents drifting and activates stop lights.
 - (b) Prevents being shoved into line of approaching traffic if struck from the rear.
- e. Execute the turn.
 - Drive into the intersection, make turn smoothly, and without strain on the engine.
 - (2) Check left mirror while executing turn.
 - (3) Never shift gears in a turn.

Use diagrams to show movement of bus if struck from rear. Show consequences of having wheels straight and of having them turned left.

When wheels are straight, if the bus is struck from the rear the bus would be pushed forward in its own lane rather than left, into oncoming traffic.

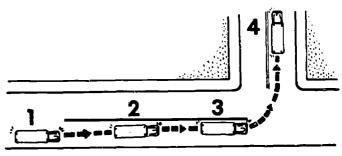
Always remain in lane until turn can be made safely. Don't creep toward oncoming lane.



CONTENT

Discuss additional things to watch for if the turn is at a 4-way intersection. Ask trainees to think of hazards created by an unprotected intersection, limited visibility, etc.

(4) Enter the highway in the <u>left-most lane</u> available and check turn signal for cancellation.



LEFT TURN

f. After completing the left turn upon multiple lane highways, pick up speed, activate right turn signal and move into right hand lane as soon as possible.

Diagram the left turn into a four-lane roadway.

NOTES:

- 8. Making a turnaround
 - a. Give brake signal well in advance of turnaround.
 - Stop bus in proper position on roadway.
 - (1) One bus length ahead of road to be backed into.
 - (2) Check traffic front and rear.
 - (3) Visibility shall be ___ feet in either direction.

Add any specific visibility distance provided by your state law. If none provided, 500 feet is acceptable, depending on traffic conditions.

INSTRUCTOR GUIDELINES CONTENT (4) Have traffic move around bus if possible. (5) Back into roadway or driveway using outside mirrors. Discuss situations other (6) Re-enter roadway. than roads where a turnaround may be unavoidable. (a) Check traffic Discuss use of patrol or aide to signal driver that (b) With caution backing area is clear. Making a turnaround is not recommended. This method is acceptable if the maneuver is absolutely necessary, and the road to be backed into is not a main road or a hill. It is preferable to drive around the block, if possible. **TURN AROUND** NOTES:

CONTENT

Refer to Figure 3 to discuss stopping distances.

Some drivers may believe that the distances given in the figure are incorrect and that their stopping distances are less than those given in the chart. This misconception has been responsible for a number of accidents, some of which were classified as tragic. The chart shows minimum distances buses should remain behind vehicles at different speeds. Emphasize the comparison with cars.

NOTE: The numbers in the bars are approximate distances for dry surfaces, good tires and good brakes. The distances would increase for slick surface, poor tires and brakes.



Stopping a school bus smoothly and within the limits of safety is another sign of an expert driver. As a good driver, you have your vehicle under control at all times and know that braking distances increase greatly as the speed and weight of the bus increases. With an ideal reaction time of 3/4 of a second, you must realize that at 20 m.p.h. the average stopping distance is 62 feet, and at 40 m.p.h. the stopping distance is 209 feet or more than three times greater. Figure 3 shows approximate stopping distance required at various speeds. The top part of each bar indicates the distance traveled during reaction time (3/4 of a second). The lower part of each bar shows actual stopping distance after the brake is applied. The last number below the bar shows total stopping distance.

The skillful driver also knows that by using correct stopping procedures the maintenance costs on the braking system will be less.

- Stopping when in a low gear or 10 m.p.h. and less.
 - Depress clutch pedal and release accelerator.
 - b. Apply brakes gradually by increasing pressure.
 - c. Reduce brake pressure slightly, but not completely just before coming to a stop to prevent jerking.
 - d. Shift gear lever into neutral position.
 - e. Release clutch and remove foot from pedal.



^{*}From Employers-Commercial Union Companies (3)

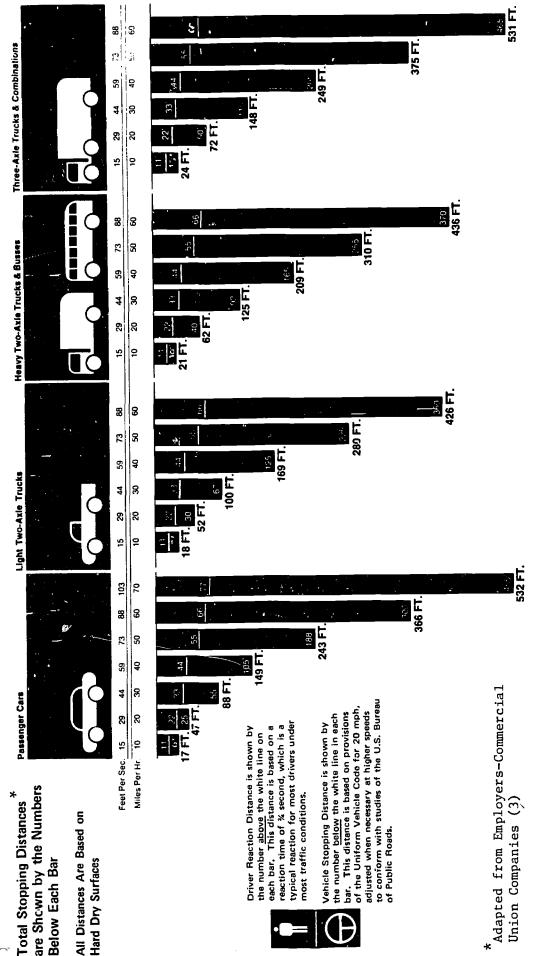


Figure 3. Stopping Distances at Various Highway Speeds



INSTRUCTOR GUIDELINES		CONTENT
	2.	Stopping when in cruising gear. a. Release accelerator and depress brake pedal.
Refer again to Figure 2 on page 13 for proper m.p.h.		 b. When proper m.p.h. is obtained for any gear, downshift to next lower gear. (1) Will reduce heat build-up.
		(2) Reduce excessive brake wear.
		c. Downshifting can be very effective and smooth.
		(1) Third gear for 5-speed trans- mission.
		(2) Second gear for 4-speed trans- mission.
	3.	Parking the bus.
		a. Shift lever into low gear on level or upgrade.
		b. Shift lever into reverse gear on down- grade.
		c. Turn wheels into curb.
		d. Turn off ignition and remove ignition key.
·		e. Release clutch and take foot off pedal
		f. Set parking brake (parking brake may freeze in wet freezing weather).
NOT	ES:	

RAILROAD CROSSINGS

INSTRUCTOR GUIDELINES

Some states do not require an empty school bus to stop at railroad tracks.

The Uniform Vehicle Code (11-703b) does not require a stop where an officer or signal directs traffic to proceed. But, emphasize that safety if not the laws, indicate that stopping is the better practice.

It is not recommended that a student (patrol) get off to signal bus across. The student is open to too much danger and cannot be held responsible for judging whether it's safe to cross the tracks. Extreme conditions (e.g., bad weather) could provide an exception to this rule. However, federal guidelines discourage having students get out and cross tracks.

CONTENT

Many accidents could be eliminated through planned safety procedures for crossing railroad tracks. Learn these procedures and practice them until they become automatic actions.

Crossing railroad tracks represents one of the greatest hazards insofar as mass casualties and fatalities are concerned. STOP, LOOK, and LISTEN. All school buses loaded or empty should stop for railroad crossings as a matter of <u>safety</u> if not a matter of law.

- 1. Prepare to stop.
 - a. Request silence.
 - (1) This is recommended so that you have minimal distraction.
 - (2) Turn heaters off if necessary to have more silence.
 - b. Get "Big Picture," check traffic control devices.
- 2. STOP the bus.
 - a. Follow legal stopping procedures.
 - b. Stop in a position that gives a clear view of the tracks in both directions. The front bumper must be clear of the tracks.
 - c. Shift into neutral.
- 3. LOOK and LISTEN.
 - a. Open service door and driver's window.
 - b. Look and listen through the open window and door.



INSTRUCTOR GUIDELINES	CONTENT
Emphasize that <u>no</u> student loading stops should occur within 300 or 400 yards of either side of railroad tracks.	 4. If no indication of approaching train. a. Shift into starting gear. (1) Must be a gear that will take bus across tracks without hesitation.
	(2) Shifting gears on tracks <u>shall</u> not be permitted.
	b. Look and listen a second time, close door and proceed quickly and smoothly
	5. If there is an approaching train.
	a. Hold bus position; use the parking brake depending on waiting time.
	b. After train passes, follow items under Procedure 4.
	6. Multitrack crossings.
	 a. Make sure no train is approaching on any of the tracks.
	b. After a train passes, wait until other tracks become visible before pro- ceeding. A second train may be approaching from the opposite direction.
	c. Follow items under Procedure 4.
	7. Railroad traffic control devices.
	a. Flasher lights and bells
	(1) Warning of an approaching train.
	(2) If train is stopped or signal is
	malfunctioning, a vehicle may
	proceed after driver insures a safe crossing can be made.
0	

INSTRUCTOR GUIDELINES			CONTENT
	ъ.	Gate	es
		(1)	All traffic must obey these devices.
		(2)	Vehicles may proceed around the gates only at the direction of a law enforcement officer or an authorized railroad representative.
	c.		lroad crossing controlled by a
		(1)	Make a safety stop.
		(2)	Follow directions of the flagman.
Add any state or local controls on the specific details of railroad crossing.	NOTES:		

BACKING IN A STRAIGHT LINE

INSTRUCTOR GUIDELINES	CONTENT			
	You must be able to back straight into a given space without allowing the bus to scrape or hit stationary objects.			
	1. Stop bus in correct position to back.			
	 Direct members of bus patrol or other responsible person (if available) to stand near rear of bus to give signals for safe backing. 			
	3. Using mirrors, check that way is clear.			
	4. Put transmission in reverse.			
	5. Using mirrors, back slowly and smoothly in a straight line.			
	6. Stop at desired point without hitting any object.			
	NOTES:			

Core E-33/E-34

STARTING AND STOPPING ON A HILL

INSTRUCTOR GUIDELINES	CONTENT		
Discuss use of parking brake, if appropriate.	1. With right foot on brake, left foot depressing the clutch and transmission, and gear shift lever in second gear, release the clutch slowly until the engine begins to labor slightly. 2. Hold clutch at that point. 3. With right foot release brake pedal and drop right foot onto the accelerator, giving enough gas to hold the weight of the bus without drifting backward. 4. Release clutch smoothly until completely out, giving enough gas to pull the bus smoothly up		
	4. Release clutch smoothly until completely out,		



ENTERING THE FLOW OF TRAFFIC

INSTRUCTOR GUIDELINES	CONTENT		
	GENERAL		
	 Stop at point of entry into the traffic flow. Activate right or left turn signal. Look to determine that there are no pedestrians in the path of the bus. Check mirror to determine that all passengers are seated. Look to right and left to determine whether there are vehicles in motion on the roadway to be entered. 		
	6. Yield right-of-way to vehicles already on the road.7. Look for suitable gap in traffic and when safe, accelerate smoothly into road, neutralizing the turn signal as right lane position is established.		
	CROSSING INTERSECTIONS*		
	 Observe the traffic ahead and from the left and right when approaching and traversing intersections. a. Watch for vehicles which are close and fast 		
	approaching the intersection. Decelerate or stop to permit those vehicles to clear the intersection.		
	b. Watch for vehicles approaching from the left and signalling a right turn. Decelerate and prepare to enter the intersection only after the vehicle has begun the turn.		
	* Adapted from NHTSA Driver Education Curriculum (11)		



INSTRUCTOR GUIDELINES	CONTENT		
	c. If your vision is obscured (e.g., by buildings, trees, parked vehicles, etc.), stop at the intersection and edge forward slowly.		
	 Observe other traffic when proceeding directl through an intersection. a. Observe other traffic and yield the right of-way if necessary. 		
	b. Observe traffic preparing to turn left an prepare to stop should a left turn be indicated.		

Core E-38

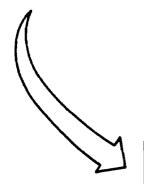
ADJUSTING THE SPEED OF THE BUS

INSTRUCTOR GUIDELINES

Refer again to Figure 3 on page 26 for stopping distances.

Provide descriptions of two different urban situations, each requiring different rates of speed. Question trainees about why they should adjust the speed of the bus. What clues does he watch for that indicate need to slow down?

Also, provide residential, rural and highway descriptions, as above, and again ask trainees questions.



CONTENT

You must operate the bus within posted speed limits and with consideration of prevailing environmental conditions. The basic rule-of-thumb is to drive at no greater speed than will permit stopping within the assured clear distance ahead.

URBAN:

RESIDENTIAL:



INSTRUCTOR GUIDELINES	CONTENT
	RURAL:
	HIGHWAY:
O CONTRACTOR OF THE CONTRACTOR	

LANE USE AND POSITION ON ROADWAY

INSTRUCTOR GUIDELINES CONTENT 1. Stay in one lane for normal driving, not straddling lane marker lines or obstructing more than one lane. 2. Use parking lane only for stopping and parking. 3. Where there is more than one lane for traffic going in one direction, travel in the furthest right lame (not including parking lame) unless passing or turning to the left. Refer again to Figure 3. 4. Drive at a safe distance from other vehicles--at page 26 for stopping least feet from a followed vehicle; at least distances. feet from a followed bus in convoy; at least Ask trainees to state safe feet from a preceding bus leaving the school following distances, depending on speed. 500 feet grounds. is recommended for buses in convoy, 100 feet is recommended for buses leaving NOTES: school ground. Substitute state or local requirements, if appropriate. OPTION: Substitute the timed interval method of determining safe following distances. The driver should note when a lead vehicle passes a reference point on the roadside (e.g., a telephone pole) and immediately begin counting seconds. Say 1001, 1002, etc., out loud. If the bus reaches the reference point at 1004, for instance, the following distance is 4 seconds. Four seconds is the recommended interval between a school bus and any lead vehicle.



INSTRUCTOR GUIDELINES CONTENT CHANGING LANES Discuss when lane changing Look for rear-approaching traffic in the new is necessary. lane when deciding to change lanes. 1. Look out the window to check any blind spot, move your head enough to see around the blind spot. 2. On multi-lane roads, look for vehicles about to enter the new lane from the far adjacent lane. 3. Check the rearview mirror(s) to observe vehicles passing in the new lane, following vehicles closing fast from the rear in the new lane, and following vehicles about to enter the new lane. NOTES:

BEING OVERTAKEN AND PASSED

	DEING OVER PAREN AND PASSED
INSTRUCTOR GUIDELINES	CONTENT
It is not recommended that the bus driver signal other vehicles that it's safe to pass. Discuss the possible consequences. OPTION: Show Ford time-lapse filmstrips, "Passing Maneuvers" with accompanying records and student workbooks. See AV Directory (75).	1. When there is no possible hazard: Stay in right-hand lane Maintain speed 2. When another vehicle is also approaching from the opposite direction creating a hazard for the vehicle trying to pass you: Slow bus to allow car to safely pass before oncoming vehicle reaches you, or Move to parking lane or leave roadway if it seems that passing vehicle can't complete the pass before oncoming vehicle reaches you. When on a narrow road, following traffic is built up, and a regular stop is not coming up soon: Pull to side of road (if possible) using right turn signal, and stop. Allow vehicles to pass. Activate left turn signal. Resume position on road and continue run.

OVERTAKING AND PASSING

INSTRUCTOR GUIDELINES	CONTENT			
	Usually, you won't have to overtake and pass other vehicles. But, when it's necessary, follow these steps.			
	1. Using	rearview mirrors check that the ic following the bus is clear for ng.		
	no on- signs	two lane road check that there is coming traffic and check traffic and markings to determine if allowed.		
Emphasize "well in advance," or add any state specification for distance at which		ate the left turn signal well in ce of passing.		
driver should activate turn signal.	4. When o	clear, pull smoothly into passing		
	5. Deacti	ivate left turn signal.		
		smoothly past the vehicle at a safe, increasing speed of bus if sary.		
	7. Activa	ate right turn signal.		
,		back into right lane when at least bus lengths ahead of passed vehicle.		
	9. Deacti	ivate right turn signal.		
	10. Mainta	ain safe speed.		
		N: Signal your intention to pass leby flicking headlights at night,		
	 When t is obs ice on 	the lead vehicle's vision to the rear scured by a trailer, open trunk lid, r snow on the rear window, or objects a rear window.		

Core E-45

INSTRUCTOR GUIDELINES CONTENT 2. When the lead vehicle is about to pull out and pass. 3. When the lead vehicle moves laterally toward the bus. 4. When the driver of the lead vehicle appears inattentive. DO NOT PASS if the lead vehicle is: Signalling or otherwise indicating a left turn. Changing lanes preparatory to passing. 3. Weaving or wandering. In this case, you may sound the horn or flash the headlights to alert the driver of the lead vehicle, and if the weaving does not cease, wait until you can pass with at least one-half lane separation. Decelerating suddenly. 5. Passing children, cyclists or animals. Being passed by another vehicle. In this case, wait until the lead vehicle has been passed, your view of the road ahead is clear, and an acceptable gap is present.

NOTES:

SECURING THE BUS

INSTRUCTOR GUIDELINES

CONTENT

Some districts recommend that drivers place "chocks" under the wheels when they leave the bus for any reason. If applicable, demonstrate how to do this. It prevents rolling. You must be able to secure the bus so that it will remain stationary and as well protected from unauthorized use as possible. Follow these steps:

- 1. Set the hand brake.
- 2. Shift to a low gear.
- 3. Check instrument for normal readings.
- 4. Turn off ignition and remove key.
- 5. Upon leaving bus, secure door.

NOTES:

Refer to Figure 4. Discuss reasons for laws and policies in terms of driver, student and pedestrian safety. Give examples of disregarding rules, not in terms of fines and tickets, but in real harm to people (and maybe bus and community property). Emphasize rules that differ significantly from rules for car drivers. Have trainees fill in specific provisions as you discuss each one. Refer back to procedures as necessary.



	SCHOOL BUS DRIVING MANEUVER	SPECIFIC PROVISIONS OF STATE LAW	SPECIFIC PROVISIONS OF LOCAL POLICY
1.	GETTING READY TO DRIVE		
2.	STARTING ENGINE		
3.	SHIFTING (including Double Clutching and Shifting Automatic Transmission	·	
4.	STEERING AND TURNING (including Right Turns, Left Turns, and Turnabouts)		
5.	STOPPING AND PARKING		
6.	RAILROAD CROSSINGS		

Figure 4. Laws and Policies on Driving Maneuvers



	SCHOOL BUS DRIVING MANEUVER	SPECIFIC PROVISIONS OF STATE LAW	SPECIFIC PROVISIONS OF LOCAL POLICY
7.	BACKING IN A STRAIGHT LINE		
8.	STARTING/STOPPING ON HILL		
9.	ENTERING FLOW OF TRAFFIC (including crossing inter- sections		
10.	ADJUSTING SPEED OF BUS		
11.	LANE USE/POSITION ON ROAD		
12.	BEING OVERTAKEN AND PASSED		

Figure 4. (continued)



	SCHOOL BUS DRIVING MANEUVER	SPECIFIC PROVISIONS OF STATE LAW	SPECIFIC PROVISIONS OF LOCAL POLICY
13.	OVERTAKING AND PASSING		·
14.	SECURING THE BUS		
15.	OTHER		

Figure 4. (continued)



CONTENT

Discussion Questions on Driving Maneuvers:

Prepare discussion questions and distribute on handouts.

Break class into four groups; each group can discuss four maneuvers and report/discuss with class. Questions should be related to maneuver and could take the form "What would you do if...".

Discuss the group reports; clarify points and give verbal feedback. Encourage class interaction.

Administer the Unit Review Questions, Part 1. Provide feedback. Review procedures for any trainees who don't meet the criterion. Additional questions should be given for remedial work.

OPTION:

An audiovisual package could be prepared or procured showing a "bus driver" successfully completing the procedures for driving fundamentals. While the visual display shows the correct procedure, the narrative description would explain how and why it was done. The background of the visual media would look like the practice course or actual road conditions, to resemble the trainee's own experience more closely.

The visual materials would be taken from the view of the driver in the bus.





IN-BUS PRACTICE

INSTRUCTOR GUIDELINES

Facility for practice and evaluation of driving fundamentals. The facility should provide for:

- Space for acceleration to 20 mph.
- 2. 400 feet of straight line travel.
- 3. Movable signs.
- Markings or a delineation of a 2-lane street.
- 5. Standard intersection.
- 100 feet of gentle roadway curve or a delineation of same.
- 7. Upgrade.
- 8. Downgrade.
- Standard communication system.
- 10. Simulated railroad crossing.

Evaluation Method

Checklists are provided at the end of this unit for the instructor to evaluate the trainee's achievement of the performance objectives. The instructor would use these checklists during practice, and as a basis for feedback to the trainee to show his areas of strength and weakness.

CONTENT

Now you're ready to try your hand at practicing driving maneuvers in the bus. Your instructor will explain the practice course and the plans for this behind-the-wheel demonstration and practice.

NOTES:



CONTENT

IN-BUS PRACTICE*

DIAGRAM OF PRACTICE COURSE:

Provide a handout with instructions for conducting the off-street practice and evaluation. Include:

- 1. A list and graphic illustration of the maneuvers that trainees will perform on the off-street facility. These will be based upon the performance objectives for this unit.
- Description of the role of instructor, drivers and other trainees as observers.
- Rules and regulations for safe and productive use of the facility.
- 4. Administration and scheduling information.
- 5. A concise list of the more critical performance objectives for trainee's observation of instructor during demonstration and for evaluation by the instructor during the off-street practice.

Before students drive on the facility, the instructor would illustrate their intended activity on a mock-up of the practice area and/or use printed handouts.

*
Adapted from NHTSA Driver

Sication Curriculum (11)

Have trainees proceed to practice course, according to your schedule and arrangements. Point out markers, lines which represent intersections, etc.

You and trainees board the bus. You demonstrate each maneuver; trainees observe. Explain what you do as you go; add reminders, e.g., "notice how I started braking...".

Provide remedial practice time for any trainee who does not meet the criterion: "pass" on second trial, all maneuvers.

CONTENT

You will each take a turn behind the wheel; others will observe and compare the "trainee's" performance with the instructor's demonstration. You will use checklists to evaluate. See Unit Review Questions, Part 2. Feedback will be a natural part of some maneuvers: e.g., if you scrape a marker, you know immediately that your steering was inappropriate. But, your instructor will critique each performance, pointing out specific actions that were right, marginal or wrong. Each one of you has 2 "trials" to perform most maneuvers correctly. On the first trial, the instructor can comment as you go along; on the second trial, you should perform without assistance.

CORE UNIT E REVIEW QUESTIONS--PART 1

Check whether these statements are mostly True or mostly False:

	1.	You should always unload your students before backing your bus to turn around.	T
:	2.	Backing should never be done unless it is absolutely necessary and should be done with extreme caution.	T
	3.	You may cross railroad tracks with your front door open to gain better visibility.	T
•	4.	Staying within the posted speed limits is your only concern in adjusting the speed of the bus for urban, rural, residential or highway driving.	T F
:	5.	In general, you should drive in the right lane, excep when you need to make a left turn.	T F
Cho	o s e	the best answer:	
(6.	A bus driver who cuts the corner too closely when making a right turn, causing his wheels to go over the curb, is prob	ably:
		(a) unaware that he's doing it(b) a poor judge of distance in other situations, too(c) deliberately trying to save time(d) a safe driver in other ways	
	7.	You are stopped in a line of traffic headed uphill, waiting for the light to change. You should keep the bus positione by:	
		(a) keeping your foot on the brake(b) slipping the clutch(c) putting the bus in low gear(d) setting the parking brake	



0.	private road or driveway?		
	(a) slow down and proceed with caution into the flow of traffic		
	(b) stop, yield right of way if there is a stop sign		
	(c) stop, yield right of way whether or not there is a		
	stop sign		
	(d) stop, yield right of way only if there are stop and		
	yield signs		
9.	Getting a speeding ticket is:		
	(a) not anything to worry about		
	(b) unavoidable once in a while		
	(c) something to be really concerned about		
	(d) a serious crime		
10.	When passing another vehicle on the road, you should:		
	(a) signal, then pull out 3 or 4 bus lengths from the bus ahead		
	(b) signal, then pull out just as you come behind the		
	vehicle ahead		
	(c) signal for the pass as you pull out		
	(d) accelerate, and pull out quickly for the pass		
11.	When turning at crowded intersections, you should:		
	(a) try to move very carefully through the flow of		
	pedestrians		
	(b) try to move through wherever there is a gap in		
	the flow of pedestrians		
	(c) wait until there are no pedestrians actually in the		
	intersection		
	(d) wait until there are no more pedestrians waiting to		
	cross		



12. When the instruments look like this:

Ammeter	Oil	Temp	Fuel

You should:

- (a) get gas and check the oil level
 (b) check the fan belt
 (c) check the oil level and cooling system
 (d) have the electrical system checked
 (e) be glad all readings are good
- 13. What is the maximum speed for school buses in your state?
- 14. State a rule for determining safe following distance on the highway.

15. Why should you use a reduced gear while traveling down a steep grade?



CORE UNIT E REVIEW QUESTIONS--PART 2

Checklists for In-Bus Driving Maneuvers and Road Test*

County:	Date:
Time: From	
Instructions	
check (\checkmark) in either the P (Pasific there is more than on	of the driver for each item within all categories to be tested. Place a or F (Fail) column each time an item is observed. Pass-Fail column for a category, evaluate the items as many times as. The Pass or Fail spaces should be left blank only if the task described test.

INITIAL START	Tin	Time 1		Time 1 Tim			e 2
	Р	F		P	F		
Inserts key in ignition	L						
Positions or checks seat and mirrors, fastens lap belt							
Checks gear position, puts in N or P							
Disengages clutch	L		Ì				
Starts engine - pushes button or turns key, releases button, uses choke properly							
Warms up engine without racing							
Checks instruments	\perp						
Observes conditions - traffic							
Releases holding brake							
Signals intent to pull out					L		
Waits if necessary							
Engages starting gear	\perp				L		
Drives about 50' - stops to check brakes							
Accelerates smoothly into traffic lane							
Moves to proper following distance proper speed							

LEFT TURN	Tim	e 1	Tin	ne 2	Tier	re 3
	Ρ	F	Р	F	Р	۴
Observes conditions - A, B, traffic and pedestrians						
Activates left turn signal, moves to left turn lane at safe distance from turn						
Re-activates left turn signal at not less than 100' from turn			L			
Reduces speed to safe level				\bigsqcup		
Observes conditions - A, B, L-R-L, traffic, pedestrians; stops if necessary						
Obeys traffic signs, signals, officers					_	ļ
Turns when there is clearance in lane he will enter						
Turns smoothly, at safe speed, into correct lane of side street, clearing center line and other obstacles						
Deactivates left turn signal						
Observes conditions - A, B, traffic						
Activates right turn signal						
Moves to furthest right traffic lane						
Descrivates right turn signal						
Maintains proper following distance			Γ			

NOTE: A = Ahead; B = Behind; R = Right; L = Left

^{*}From NHTSA Task Description (14)



RIGHT TURN	Tin	1e 1	Tim	ne 2	Tin	ne 3
	Ρ	F	Р	F	Ρ	F
Observes conditions - A, B, treffic and pedestrians						
Activates right turn signal, moves to right turn lane at safe distance from turn						
Activates right turn signal at not less than 100' before turn						
Reduces speed to safe level						
Observes conditions - A, B, L-R-L, traffic, pedestrians; stops if necessary						
Obeys traffic signs, signals, and officers						
Turns when there is clearance in lane he will enter						
Turns smoothly, at safe speed, as far to left of side street as necessary to clear obstacles						
Returns to right traffic lane immediately						
Deactivates right turn signal						
Maintains proper following distance						

VERTAKING AND PASSING	Tin	ne 1	Tim	w 2
ANOTHER VEHICLE	P	F	P	F
Takes initiative only under safe conditions				
Maintains proper following distance				
Observes conditions - A, B, traffic and road signs and markings				
Activates left turn signal				
When clear, pulls smoothly into pessing lane				
Deactivates turn signal	T			
Moves smoothly past the vehicle at a safe speed	-			
Activates right turn signal				
Wiren at least 1% bus lengths ahead of passed vehicle, moves back into right lane				
Descrivates right turn signal		П	П	
Maintains proper following distance	T_{-}	\Box		
Maintains safe speed		П		

RAILROAD CROSSINGS	Tin	ne 1
	P	F
Stops the bus approximately 15 feet from the crossing		
Turns off noisy motors and fans		
Opens bus door		
Looks L-R-L, listens for at least 5 seconds		
Closes bus door, shifts to a low gear		
Observes conditions - A, B, L-R-L, for clearance on other side of tracks, train, traffic		
When safe, proceeds across tracks without shifting		
Double track, train passing on near side: driver weits for 15 seconds before crossing tracks		

BEING PASSED BY ANOTHER VEHICLE	Tin	ne 1	Tir	ne 2
	Р	F	P	F
Maintains proper following distance				
Observes conditions A, B, traffic, vehicle preparing to pass			Γ	
Checks clearance on laft side				
Maintains safe speed			Г	
Observes conditions - A, B.			Г	
Adjusts following distance				



HILLS	1	Asce	ndir	9	7 7	Pasce	ndin	9
	7111	w 1	Tin	10 2	Tir	ne 1	Tin	re 2
	۵	F	P	F	P	F	Р	ų.
A. Stopping and Starting								
Maintains proper following distance								
Applies brakes as needed					L	<u> </u>		۰
Observes conditions - A, B, traffic					Ŀ			
Comes to full stop, at safe distance from vehicle or intersection ahead								
Shifts to N, holding bus on foot brake only			·					
Observes conditions, A, B, L-R-L								
Shifts to a low gear								
Releases clutch to engage engine and accelerates without rolling back								
Releases foot brake and slowly accelerates								
Maintains proper following distance								
B. Shifting, Accelerating, Decelerating								
Checks brakes before beginning ascent or descent								
Shifts to a low gear								
Maintains safe speed								
Uses brakes as needed								
Does not shift while an hill					Γ			

URVES	Tir	ne 1
	Р	F
Maintains proper following distance		Π
Observes conditions - A, B, traffic roadway		
Decelerates before curve, downshifts if necessary		
Maintains safe speed through curve, accelerating slightly		
Maintains corract position in lene	7	

BACKING/STRAIGHT	Tim	e 1
	P	F
Stops bus in correct position to back		
Using mirrors, checks that way is clear to back		
Puts transmission in reverse		
Using mirrors, backs slowly and smoothly in a straight line		
Stops at desired point without hitting markers		

INTERSECTIONS/STRAIGHTAWAYS	Time 1		Time 1		Time 1		Tin	na 2	Lim	e 3
	P	F	P	F	P	F				
Approaches intersections at safe speed			Г							
Maintains proper following distance										
Observes conditions - A, B, L-R-L, traffic and padestrians										
Yields right-of-way to pedestrians			Γ	П						
Obeys traffic signs, lights, or officers		П		П						
Stops completely at rural and blind intersections						-				
Bafore starting from stop, observes conditions A, B, L-R-L										
Crosses intersection at safe speed, staying in fane			Γ							
Does not cross until there is clearance on other side of the intersection										

TURN AROUND USING BACKING	Ti	ne 1
	P	F
(Bus in furthest right lane)		1
Activates right turn signal		Т
Maintains slow speed		
Observes conditions - A, B, L-R-L, traffic, pedestrians		
Slowly drives past turn around area, stops		Γ
Signals other drivers of intention to back, waits for clearance		
Observes conditions		
Backs slowly into turn around area, using mirrors		
Stops, observes conditions		
Signals intention to re-enter roadway	1	
When clear, re-enters road in right lane		
Maintains proper following distance.		
Maintains safe speed		

SECURING THE BUS	Tin	ne 1	Tin	Time 2		
	P	F	P	F		
Set parking brake			Γ	Γ		
Shift to a low gear						
Check instruments						
Turn off ignition and remove key						
Upon leaving bus, securé door						



ANSWERS TO REVIEW QUESTIONS

CORE UNITS A-E



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- When bus is being operated upon a highway other than for the transportation of school children.
- 2. When they have a copy of a lease or contract in their possession.
- 3. Federal Motor Vehicle Safety Standard 108 requires that school buses have at least a system of four red flashing warning lamps. Some states require an eight light system—four amber flashing lamps and four red flashing lamps.
- 4. To establish fitness and competency to operate a school bus with safety, and to assess his knowledge of the laws and regulations relating to the operation of a school bus.
- 5. (Will vary with state.)
- 6. (Minimum age will vary with state; maximum age is 65.)
- 7. Any four from page 10.
- 8. Any four from page 10 and 11.
- 9. Any four from page 11 and 12.
- 10. Any two from page 12.
- 11. Any four from page 13.
- 12. Any four from page 15 through 17.
- 13. Police record; driving record.
- 14. Any listed in Figure 4, page 26 and 27.
- 15. Poor driving record; disobeying laws, school policy; questionable moral behavior, chronic health problems, etc.

PERFORMANCE CRITERION: 9 out of 15 correct



- 1. False
- 2. True
- 3. False
- 4. False
- 5. True
- 6. False
- 7. True
- 8. False
- 9. False
- 10. True
- 11. True
- 12. False
- 13. True
- 14. True
- 15. True

PERFORMANCE CRITERION: 13 out of 15 correct



PERFORMANCE CRITERION:

Responses must be similar to procedures in manual and must conform to state and local regulations and at least two other students and instructor must confirm.



NOTE: These are just <u>sample</u> answers. Make sure the answers you accept conform to state and local regulations.

I would:

- 1. Ask him to stop eating.
- 2. Not let him off unless he or she had written permission.
- 3. Ask him to converse in normal tones if it interferes with your driving.
- 4. Comment to him (them) on their good behavior; thank them.
- 5. Ask them to be seated; stop bus if request if defied.
- 6. Ask them to "extinguish all smoking materials"; stop bus if request is defied.
- 7. Wait for him, unless I'd already entered the flow of traffic.
- 8. Ask her to leave the dog outside; not let her enter the bus if request is defied.
- Request that any snowballs be <u>dropped</u> (not thrown) out window and windows be closed, if necessary. Stop the bus if necessary.
- 10. If using sharp compass, etc., ask him to wait. If reading, allow him to continue and praise him for good behavior.

PERFORMANCE CRITERION:

6 of the 10 answers must conform to state and local regulations/policies.



	DISORDER		PROCEDURE
a·	Actual fist fight between students.	a.	As quickly as possible, find a turnoff or berm on which you can safely park the bus. Turn on only the hazard lights, not the red flashing warning signals. Secure the bus, turn off the engine and take the keys. (Include local policy on how to proceed.)
ъ.	Collapse of one or more	b.	(same as above)
		٤	
c.	Small fire, explosion, or similar acts of vandalism.	c.	(same as allowe)



Answers must be similar to the following, as they conform to state and local laws:

- Examples of conduct problems--repeated infraction of bus conduct rules, frequent disruption of schedule through lateness, actual/probable vandalism.
- 2. Reasons for the reporting procedures, such as: (a) keeps students aware of your authority, (b) provides administration with written basis for disciplinary action, (c) makes parents aware of child's behavior, (d) help to change student's behavior.
- 3. Specific names, "itles of local contacts to report particular conduct problems to.
- 4. Local regulations—as indicated by school board regarding length of suspension, e.g., one day for repeated misconduct, one week for lateness, two weeks or one month for vandalism, etc.

PERFORMANCE CRITERION: 3 out of the 4 questions correct.



- 1. Will vary according to state requirement. Recommended for any accident involving personal injury or vehicle/property damage apparently in excess of \$100.00.
- 2. Will vary. Answers may include flags, flares, fusees, reflectors. fire extinguisher, fire axe or wrecking bar, first aid kit.
- 3. Will vary. Usually, two per year during first week of school and in the spring; on the school grounds.
- 4. At the base of the flame; a side to side sweeping motion; hold extinguisher in an upright position.
- 5. School bus driver error over 50 percent of the time.
- 6. During loading and unloading on a read my.
- 7. Reduced visibility; possibly reduced depth perception, acuity, etc.
- 8. Brake failure.
- 9. Conduct (or care).
- 10. Negligence.
- 11. Higher.
- 12. Any 2 of the following: Fire or danger of fire, danger of drowning, danger of collision (unsafe position where bus could move further).
- 13. You might make an admission of fault that further analysis reveals to be incorrect; possibility of conflicting testimony.
- 14. Will vary. Must conform to local policy.
- 15. Type B, Type A, Type C.

PERFORMANCE CRITERION: 11 out of 15 correct



Demonstrations should be performed "live." Other answers may be oral or written.

- 1. PERFORMANCE CRITERION: Without error or omission, demonstrations and oral descriptions must satisfy instructor.
- 2. PERFORMANCE CRITERION: Must conform to relevant procedures in this unit.
- 3. PERFORMANCE CRITERION: Must conform to procedure for particular type extinguisher; fire must be extinguished.



- 1. Outside
- 2. Don't drive. Report condition to your supervisor or mechanic.
- 3. Thump the tires with a heavy, blunt tool.
- 4. Pools of water; slippery steps.
- 5-7. Any three from page Core D-5, or as otherwise specified by instructor.
- 8-10. Any three from pages Core D-5 or Core D-6, or as otherwise specified by instructor.

PERFORMANCE CRITERION: 7 out of 10 correct



- 1. False
- 2. True
- 3. False
- 4. False
- 5. True
- 6. b
- 7. a
- 9. c
- 9. c
- 10. a
- 11. c
- 12. c
- 13. Will vary
- 14. One bus length for every 10 mph or 4 seconds timed interval behind vehicle ahead.
- 15. Better control of bus; engine acts as brake to slow bus; conserve tires and brakes.

PERFORMANCE CRITERION: 12 out of 15 correct



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