

Type A, Multifunction and Small Vehicle Route/Activity Operator Guide

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Introduction

The Colorado Department of Education (CDE) School Transportation Unit issued these guidelines to assist public and charter school districts and Boards of Cooperative Educational Services (BOCES) with developing policies and procedures for the safe transportation of students. These guidelines provide interpretations, suggestions, options, industry standards, best practices and ideas that are consistent with the Colorado Minimum Standards Governing School Transportation Vehicles, 1 CCR 301-25; the Colorado Rules for the Operation, Maintenance and Inspection of School Transportation Vehicles 1 CCR 301-26, which promote safe transportation integrity in school transportation departments. It is hoped that this publication will serve as a resource to assist transportation providers as they work toward compliance with legislation and regulations.

Acknowledgements

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Unit One - Driver Role and Responsibility

Driving a school transportation vehicle is an extremely important task, involving knowledge of related information, visual skills, judgments, decisions and accurate responses. Competent school transportation operators and uniformity in the operation of school transportation vehicles throughout the State of Colorado is imperative to provide efficient, economical transportation with the least amount of risk to our pupils and the public.

As a small vehicle operator you are not driving a vehicle the size of a typical school bus, however, you are still transporting students and are therefore held to a much higher standard than if you were just driving your own private vehicle. You are now one of the most trusted people in our society noting that parents are placing the safety of their children into the hands of a complete stranger. While the children are in the vehicle you are driving, their safety is entrusted to you.

School Transportation Vehicle Operators that operate their vehicle on the roadway obeying all traffic laws, exercising extreme caution, following all district/charter/service provider policies, adhering to all state and federal requirements while maintaining good order will be appreciated and respected in their community as a person who performs a difficult and necessary service. Responsibilities of each driver are numerous and vary from seemingly insignificant tasks to very critical decision making that may involve the well-being of a passenger or liability of the school district/charter/service provider.

Your Personal Pre-Trip

The personal pre-trip is just as important as the vehicle pre-trip. Factors that influence a driver's well-being are physical, emotional, and mental attitude. Stress in any of these areas can affect driving performance. Under physical, emotional, or mental stress a driver may have trouble concentrating and may experience slowed reaction time.

<u>Be Well Rested</u> - Fatigue is one of the major contributing factors to accidents. A well-rested driver is more alert to emergencies and is less likely to misjudge speed and distance. A driver who gets an adequate amount of rest is less likely to overreact to stress created by traffic and passengers.

<u>Physical Health</u> - Both illness and the medicine to combat it can interfere with concentration, coordination, and decision-making abilities. Medications, such as cold treatments, may cause more problems with driving ability than the illness itself. Behind the wheel of a school transportation vehicle is no place to combat the flu.

<u>Proper Dress</u> - Clothing contributes to both safety and the driver's professional image. Loose clothing, drawstrings, unsecured long hair, and jewelry may get caught in equipment. Shoes with smooth soles or spiked heels may cause ankle injuries or slipping and falling on uneven or slick surfaces. Clothing and footwear must be appropriate for road and weather conditions. Footwear should be firm and stable, with no open toes or heels, and should fit securely to the foot. Remember, clothing that is provocative, advertises drugs, tobacco, alcohol, or sex should not be worn.

<u>Drugs and/or Alcohol</u> - The possession or use of any drugs or alcohol while driving is prohibited. The use of any drugs or alcohol prior to driving a school transportation vehicle is also prohibited.

<u>Confidence</u> - Confidence is also a factor. Over confident drivers may take unnecessary chances. Under confident drivers may not make critical driving decisions in a timely manner.

<u>Emotional and Personal Problems</u> - Driving is no place to rehearse arguments or relive family fights. When such strong emotional events dominate drivers' thoughts, safe driving observations or the ability to make sound decisions is affected.

<u>Mental Health</u> - Generally speaking, the problems that fall into this category do not come on suddenly and, while treatable, this usually requires time. Mental health is closely related to emotional upsets and/or to physical problems. Being depressed over a long period, with or without apparent reason, may be related to physical factors or brain chemical imbalances that characterize a mental condition. Drivers experiencing on-going mental or emotional problems may need help from a professional. Seeking out available resources is the first step.

<u>Self-Esteem</u> - These factors generally cannot be changed in a short period, but they do affect driving. Studies show that drivers who lack self-esteem have more accidents.

In conclusion, know when you are "fit and ready" to drive the school vehicle. Know and acknowledge when you need help in becoming "fit and ready" to safely transport students. Safely transporting students is our business.

What is My Job?

Your job is one of great public contact and public expectation. You drive a vehicle with the name of your school district/charter/service provider/company displayed. If something goes wrong on the route, it is likely that your district/charter/service provider will receive a phone call before you return. As a small vehicle operator, you offer a safe transportation service to many different and challenging customers. Who are your customers? The customers riding in your vehicle will include students, who may be very young and may include young adults, through age 26. Other customers may include supervisors, teachers, parents, and coaches.

Performance Abilities

- Operate varying sizes and types of school transportation vehicles used to transport pupils
- Familiarity with the geographic service area of the school district/charter/service provider
- Knowledge of local, state, and federal rules, regulations, ordinances, and laws regarding school vehicle operation
- Alert with the ability to exercise good judgment concerning emergencies, disabled vehicles, and abnormal driving

Responsibilities

- Follow establishedschedules/routes
- Maintain appropriate fuel level in the vehicle
- Maintain an acceptable standard of cleanliness of the vehicle
- Monitor mechanical condition by performing daily inspections (pre-trip, inbetween and post trips). Report deficiencies to mechanic.
- o Drive safely and defensively at alltimes
- Be prepared to conduct emergency evacuations.
- Report vehicle and/or student accidents/injuries to transportation supervisor or his/her designee
- Administer first aid as necessary
- Uphold district/charter/service provider small vehicle rules and regulations
- Maintain acceptable communications with transportation supervisor, staff, and the public
- Exhibit a positive image as a representative of the school district/charter/service provider
- o Determine that all carry-on items are properly handled to minimize danger

Types of Vehicles

<u>Type A Bus</u> - a conversion body constructed upon a van-type compact truck or a front-section vehicle chassis, designed for carrying passengers, with a driver side door. The vehicle will be under 21,001 pounds GVWR.

<u>Multi-Function Bus</u> - a motor vehicle built to federal school bus standards. Usually a different color and does not have the 8-way light system or stop arm.

<u>Small Vehicle</u> - a motor vehicle that does not meet the requirements of a Type A, B, C, or D school bus. A small vehicle is designed for normal use by the public. Students may be transported in a small vehicle on route or an activity trip.

Small Vehicle Route Operator Requirements

At a minimum, the vehicle must have a CDE Annual Inspection, carry a 2 $\frac{1}{2}$ pound dry chemical file extinguisher approved by UL and rated for 1A10BC, three emergency triangle reflectors in a securely mounted case, and a 24-unit first aid kit. These items must be secured to the vehicle, not just loose inside. At the beginning of each day, prior to transporting students, the vehicle must have a pre- trip inspection. This must be accomplished by either the driver or an authorized district/charter/service provider person.

Driver Requirements

- At a minimum, the driver must meet the following requirements to transport students.
 They must:
- o possess a valid operator's license
- o be 18 years of age
- provide an MVR meeting the insurability requirements of the district/charter/service provider and/or insurance carrier prior to transporting student and annually thereafter
- o possess a current DOT physical or equivalent
- o complete the annual written test
- the driver must pass a driving performance and pre-trip test annually
- o the driver must be able to perform all essential functions of the position
- Proof of these requirements must be kept on file in the transportation department. Each person must have a training outline that lists what training was accomplished, date, topic, duration, driver signature and the instructor's name. The structure of the small vehicle operator file is up to the district/charter/service provider. The file can be by year with everyone in one file, or by person.

Training

Pre-service training

The small vehicle operator shall be provided with a pre-service training program and access to the CDE Type A, Multifunction, Small Vehicle Route/Activity Operator Guide. Districts/Charter Schools and Service Providers are required to provide the following:

- a copy of job responsibilities
- a copy of written emergency procedures and/or contingency plans (accidents, breakdowns, etc.)
- training for the type of duties they may be required to perform
- training for the type of vehicle(s) to be operated

- o first aid, cardiopulmonary resuscitation and universal precautions training
- o student confidentiality training prior to transporting students
- o adverse weather training
- mountain driving training
- proper use of Child Safety Restraint Systems and wheelchair securement training when applicable
- o training to perform all essential functions including emergency evacuations
- training on trailer towing (if applicable)

The operator must also successfully pass an initial driving performance evaluation, including pre-trip test prior to transporting students. These are <u>minimum</u> requirements. Proper documentation of completion of these requirements must be kept on file in the transportation department. If the operator works for multiple school district/charter and service providers, each school district/charter and service provider is required to maintain a current driver qualification file. The district/charter and service provider may have additional requirements.

Re-certification training

CDE requires the operator to complete the following prior to authorization to drive students.

- successfully pass the CDE Type A Multifunction/Small Vehicle Route Operator written test annually
- o Current DOT physical or equivalent
- o an approved MVR annually

Pre-Trip and Post-Trip

Training shall be provided concerning pre-trip and post-trip procedures for the type of vehicle to be operated. The district/charter and service provider procedures for reporting defects should be part of the pre-trip training. The operator of any school transportation vehicle shall perform and document a daily pre-trip prior to a vehicle being placed in service. The post-trip shall be completed at the end of daily operations of each vehicle.

Safety Restraints and Safety Belt Use

The greatest lifesaving and injury reducing safety device drivers have on the bus for their own protection is the safety belt. However, if you do not use it, not only are you exposing yourself, your passengers, and other motorists to danger, but you are violating the law. Not only are <u>you</u> required to wear your seat belt per 4204-R-14.01 in addition, 14.02 requires that all passengers in the vehicle, if it is under 10,000 GVWR, must use their seat belts as well. As the driver, it is your responsibility to ensure that all of your passengers are secured in their seat belts prior to placing the vehicle in motion.

1 <u>CCR 301-26 COLORADO RULES FOR THE OPERATION, MAINTENANCE ANDINSPECTION</u> OF SCHOOL TRANSPORTATION VEHICLES (Excerpts pertaining to Small Vehicle Operations)

4204-R-1.00 Statement of Basis and Purpose

- 1.1 Colorado law provides for the State Board of Education to adopt and enforce regulations governing the safe operation of school buses used for the transportation of students pursuant to Sections 22-51-108 and 42-4-1904, C.R.S.
- 1.2 The purpose of these rules is to adopt and enforce regulations governing the reasonable and adequate standards of safety for the operation, maintenance and inspection of school transportation vehicles that promote the welfare of the students and afford reasonable protection to the public. These rules are designed to align with federal standards, reflect current industry practices, and incorporate recommendations from school district and service provider transportation professionals.
- 1.3 The Commissioner, or designee, may provide an exemption to the Rules for the Operation, Maintenance and Inspection of School Transportation Vehicles to the extent the Commissioner finds an exemption to be appropriate. 1.04 These rules shall become effective January 1, 2018 for all student transportation.

4204-R-2.00 Applicability of Rules

- 2.1 These rules and regulations apply to the operation, maintenance and inspection of all public-school transportation conducted by:
 - 2.01(a) A school district or charter school for routes (home to school, school to school, and school to home);
 - 2.01(b) A school district or charter school for activity trips (school related events);
 - 2.01(c) A company or individual hired by a district or charter school service provider) for routes (home to school, school to school, and school to home).
- 2.2 These rules are not intended to include:
 - 2.02(a) Private motor vehicles used exclusively to carry members of the owner's household; or
 - 2.02(b) Transportation arrangements not authorized by the district including but not limited to sharing of actual gasoline expense or participation in a car pool; or

- 2.02(c) The operations of vehicles in bona fide emergency situations consistent with policies of the local board of education; or
- 2.02(d) Transportation conducted by a company or individual for activity trips (school related events), including service providers, parent volunteers, and coaches or teachers using a private motor vehicle; or
- 2.02(e) Route transportation provided by a company or individual as part of their operation as a common carrier under the jurisdiction of the US Department of Transportation or Public Utilities Commission, including RTD, taxi cab services, Uber services, and Lyft services.
- 2.3 These rules shall not preclude a school district or service provider from establishing a more rigid standard or policy when deemed necessary by the local board of education or service provider.

4204-R-5.00 School Transportation Vehicle Operator Requirements

- 5.2 School transportation vehicle route operators (transporting students to and from school or from school to school) driving vehicles with the capacity of 15 or fewer passengers (counting the driver), including Type A Multifunction Bus and Small Vehicle, shall meet or exceed the following requirements:
 - 5.02(a) The operator shall possess a valid driver's license
 - 5.02(b) The operator shall be a minimum of 18 years of age
 - 5.02(c) The operator shall have a current physical examination (not to exceed two years) consistent with the requirements of the Federal Motor Carrier Safety Regulations, 49 CFR section 391.43 (2015). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available at https://www.ecfr.gov/.
 - 5.02(d) The district or service provider shall obtain a motor vehicle record of each operator prior to transporting students and annually thereafter.
 - 5.02(e) The operator shall be given and/or have access to the CDE Type A Multifunction Bus / Small Vehicle Route Driver Guide prior to transporting students.
 - ** In the Addendum of this guide there is a Certification of Receipt and Understanding form that must be signed and permanently placed in the operator qualification file.**
 - 5.02(f) The operator shall receive a minimum of six hours of in-service training annually which may include required training in 1 CCR 301-26-R-5.00. A portion of this annual in-service requirement may occur during the schoolyear.

- 5.02(g) The operator shall successfully pass a CDE Type A Multifunction Bus/Small Vehicle Route Operator written test for the current school year prior to transporting students and annually thereafter.
- 5.02(h) The operator shall successfully pass a driving performance test, including a pre-trip inspection prior to transporting students, and annually thereafter. This test shall be conducted in a vehicle, which is similar in type and size to the vehicle the applicant is assigned to operate. Districts have the option to re-test at their discretion.
- 5.02(i) The operator shall receive pre-service training on the type of vehicle(s) to be driven, the type of duties they may be required to perform and in student confidentiality requirements prior to transporting students.
- 5.02(j) The operator shall have written documentation evidencing that they have received first aid training, including cardiopulmonary resuscitation and universal precautions within 90 calendar days after initial employment. If the operator holds a current first aid, cardiopulmonary resuscitation certificate it will meet the requirements of this section. Operators shall receive first aid training and/or recertification every two (2) years thereafter.
- 5.02(k) The operator shall receive training regarding the proper use and maintenance of Child Safety Restraint Systems (CSRS) and proper wheelchair securement, when the operator is engaged in transportation involving these systems and devices prior to transporting.
- 5.3 School transportation vehicle operators, other than route operators, driving vehicles with the capacity of 15 or fewer passengers (counting the driver), including Type A Multifunction Bus and Small Vehicle, shall meet or exceed the following requirements:
 - 5.03(a) The operator shall possess a valid driver's license.
 - 5.03(b) The operator shall be a minimum of 18 years of age.
 - 5.03(c) The district or service provider shall obtain a motor vehicle record of each operator prior to transporting students and annually thereafter.
 - 5.03(d) The operator shall be given and/or have access to the CDE Type A Multifunction Bus/Small Vehicle Operator Guide prior to transporting students.
 - 5.03(e) The operator shall successfully pass a Type A CDE Multifunction Bus/Small Vehicle Operator written test for the current school year prior to transporting students and annually thereafter.

- 5.03(f) The operator shall annually complete the CDE Multifunction/Small Vehicle Operators Medical Information Form (STU-17). Any yes annotations shall require a doctor's release.
- 5.03(g) The operator shall receive pre-service training on the type of vehicle(s) to be driven, the type of duties they may be required to perform and in student confidentiality requirements prior to transporting students.
- 5.03(h) The operator shall be given and/or have access to first aid information, including cardiopulmonary resuscitation and universal precautions.
- 5.03(i) The operator shall successfully pass a driving performance test including a pre-trip inspection prior to transporting students. This test shall be conducted in a vehicle, which is similar in type and size to the vehicle the applicant is assigned to operate. Districts have the option to re-test in subsequent years at their discretion.
- 5.03(j) Prior to driving a school transportation vehicle pursuant to 1 CCR 301-26-R-12.11, operators shall receive training on towing a trailer.
- 5.4 School transportation paraprofessional is a person assigned to assist a school transportation vehicle operator control behavior of students in the bus and/or ensure the safety of students getting on and off the school transportation vehicle.
 - 5.04(a) The school transportation paraprofessional shall receive pre- service training for the type of duties they may be required to perform prior to assisting with transporting students. School transportation vehicle operators and school transportation paraprofessionals are required to be able to perform all essential functions including emergency evacuations when transporting students as determined by the school district or service provider job qualification standards.
- 5.5 School transportation vehicle operators and school transportation paraprofessionals are required to be able to perform all essential functions including emergency evacuations when transporting students as determined by the school district or service provider job qualification standards.
 - 5.05(a) The employing school district or service provider has the authority to require at any time a medical evaluation of a school transportation vehicle operator or school transportation paraprofessional for any condition that could impair the employee's ability to operate a vehicle safely, assist student(s) as required by their position,

and/or perform other required job duties, and may take appropriate action on the outcome of such evaluation.

5.05(b) School transportation vehicle operators and school transportation paraprofessionals that have medical conditions which result in temporary loss of performance abilities shall provide return to work documentation from their physician, and any other requirements per district policy to the employing school district/service provide prior to returning to their assigned duties.

4204-R-8.00 Pre-trip/Post-trip Vehicle Inspections

- 8.1 Each school transportation vehicle shall have a daily pre-trip and post-trip inspection performed and documented by the school transportation vehicle operator or a district, charter school or service provider authorized transportation employee. A daily pre-trip inspection shall be completed prior to a vehicle being placed in service. A daily post-trip inspection shall be completed at the end of daily operation of each vehicle.
- 8.2 The pre-trip and post-trip inspection requirements for school transportation vehicles, other than small vehicles, shall include at a minimum all items listed on the CDE School Transportation Vehicle (School Bus/Multifunction Bus/Motor Coach Bus) Pre-Trip and Post Trip Requirements Form (STU-9).
- 8.3 The pre-trip and post-trip inspection requirements for school transportation small vehicles shall include at a minimum all items listed on the CDE School Transportation Vehicle (Small Vehicle) Pre-Trip and Post Trip Requirements Form (STU-8).
- 8.4 School districts and service providers shall have a procedure in place to verify that students are not left on an unattended school transportation vehicle.

4204-R-11.00 Maintenance and Repair (Excerpts)

- 11.1 School districts, charter schools and service providers must ensure all school transportation vehicles are systematically inspected, maintained and repaired to ensure that school transportation vehicles are in safe and proper operating condition.
- 11.2 School districts, charter schools and service providers shall have a system to document preventative maintenance, reported defects and repairs made to school transportation vehicles.
- 11.3 School districts, charter schools and service providers shall maintain separate files for each school transportation vehicle with documentation of all annual inspections, all preventative maintenance and all reported damage, defects or

deficiencies and the corresponding repair and maintenance performed.

- 11.4 Any identified damage, defect or deficiency of a school transportation vehicle must be reported to the school district, charter schools or service provider which:
 - 11.04(a) Could affect the safety of operation of the school transportation vehicle, or
 - 11.04(b) Could result in a mechanical breakdown of the school transportation vehicle, or
 - 11.04(c) Results in noncompliance with Colorado Minimum Standards Governing School Transportation Vehicles (1 CCR 301-25) and/or manufacturer's specifications.
 - 11.5 Documentation for reported defects must include all of the following:
 - 11.05(a) The name of the school district, charter school or service provider.
 - 11.05(b) Date and time the report was submitted.
 - 11.05(c) All damage, defects or deficiencies of the school transportation
 - vehicle. 11.05(d) The name of the individual who prepared the report.
- 11.6 Following a reported damage, defect or deficiency of a school transportation vehicle, school districts, charter schools and service providers or a representative agent must repair the reported damage, defects or deficiencies, or document that no repair is necessary, ensuring that the vehicle is in safe and proper operating condition prior to transporting students.
- 11.7 School districts, charter schools and service providers shall not transport students in a school transportation vehicle which is not in safe and proper operating condition. A school transportation vehicle shall be designated as "out-of-service" by a school district, charter school or service provider, a school transportation annual inspector or the CDE School Transportation Unit.
 - 11.07(a) Exemption Any school transportation vehicle discovered to be in an unsafe condition while being operated on the highway, roadway or private road may be continued in operation only to the nearest place where repairs can safely be affected. Such operation shall be conducted only if it is less hazardous to the public than to permit the vehicle to remain on the highway, roadway or private road.
- 11.8 Following a school transportation vehicle being placed "out-of-service", a school district, charter school, service provider or a representative agent must make required repairs, ensuring that the vehicle is in safe and proper operating condition

prior to transporting students. In the event of being placed "out-of-service" during an annual inspection, the school transportation vehicle must successfully pass a CDE annual inspection prior to transporting students.

- 11.9 The preventative maintenance inspection on air drum brake systems shall include, at a minimum, that the brake rod travel has been measured and documented. The applied pressure method shall be used.
 - 11.09(a) The inspection interval shall not exceed 4,000 miles for buses equipped with a manual slack adjuster air brake system.
 - 11.09(b) The inspection interval shall not exceed 6,000 miles for buses equipped with an automatic slack adjuster air brake system.
- 11.10The preventive maintenance inspection interval on air disc brake systems shall not exceed 6,000 miles and shall include, at a minimum; inspection and documentation of:
 - 11.10(a) Inspect the pad thickness by checking the mechanical wear indicators.
 - 11.10(b) Inspect the visible part of the rotors for cracks, excessive wear, damage, etc.
 - 11.10(c) Inspect running clearance. If the caliper has no movement or appears to move greater than the distances indicated by the manufacturer, then a full wheel removal inspection will be necessary.
- 11.11The preventive maintenance inspection interval for hydraulic brake systems shall not exceed 6,000 miles and shall include, at a minimum, inspection and documentation of:
 - 11.11(a) Proper parking brake operation.
 - 11.11(b) Proper brake fluid level and clarity
 - 11.11(c) Adequate pedal reserve.
 - 11.11(d) Proper hydraulic/vacuum assist operation.
 - 11.11(e) Visual inspection for brake fluid leakage.
- 11.12 If brake adjustment or repair is needed, the work shall be completed by or supervised by a DOT or equivalent qualified brake inspector meeting the requirements of the Federal Motor Carrier Safety Regulations, 49 CFR section 396.25

(2015). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available at https://www.ecfr.gov/.

4204-R-14.00 Safety Restraints

- 14.1 A school transportation vehicle operator shall have the safety belt fastened, worn correctly and properly adjusted prior to the school transportation vehicle being placed in motion.
- 14.2 All passengers in a school transportation vehicle under 10,000 lbs. GVWR shall have their safety belts fastened, worn correctly and properly adjusted prior to the school transportation vehicle being placed inmotion.

4204-R-15.00 Transportation of Miscellaneous Items

- 15.1 A school transportation vehicle operator shall make a reasonable and prudent determination that all carry-on items are properly handled in order to minimize the danger to all others.
- 15.2 All baggage, articles, equipment or medical supplies not held by individual passengers shall be secured in a manner which assures unrestricted access to all exits by occupants, does not restrict the driver's ability to operate the bus and protects all occupants against injury resulting from falling or displacement of any baggage, article or equipment. Oxygen cylinders secured to a wheelchair shall be considered to be in compliance with this subsection, provided they do not impede access to any exit.
- 15.3 All chemicals and cleaning supplies carried on a school transportation vehicle must meet the following precautions:
 - 15.03(a) Container is non-breakable.
 - 15.03(b) Container is labeled with contents.
 - 15.03(c) Pressurized aerosols are prohibited.
 - 15.03(d) Container is secured in a bracket, or in a closed compartment in the driver's area or a compartment on the exterior of the bus.
 - 15.03(e) Containers and quantities of products must be no more than 32 ounces in size.

- 15.4 Interior-decorations shall not be located within the driver's area (which includes the space in front of the front barriers including the step-well, dash, walls and ceiling, the windshield, the entry door, the driver's side window, and all windows in front of the front barrier), the first two passenger windows on both sides of the vehicle and all windows on the rear of the vehicle. Other decorations within the passenger compartment shall not:
 - 15.04(a) Cover any required lettering.
 - 15.04(b) Impede the aisle or any emergency exit.
 - 15.04(c) Hang from the walls and/or ceiling.

<u>4204-R-16.00 Maximum Driving Time for School Transportation Vehicle Operators</u>

16.1 The school transportation vehicle operator, including small vehicle operators, shall not drive nor shall the school district or service provider permit or require an operator to drive:

16.01(a) In excess of 10 hours or after being on-duty 14hours until completing 10 hours off-duty. This would include on-duty time for all employers. Ten hours off-duty may be consecutive or accumulated in two or more periods of off-duty time with one period having a minimum of 6 consecutive hour's off-duty.

16.01(b) After being on-duty for more than 70 hours in any seven consecutive days.

16.2 In place of section 16.00 of these rules, the school district or service provider may comply with the Federal Motor Carrier Safety Regulations, 49 CFR section 391.43 (215). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available at https://www.ecfr.gov/.

16.3 Definitions:

16.03(a) Adverse driving conditions - In case of emergency, an operator may complete the trip without being in violation if such trip reasonably could have been completed absent the emergency.

16.03(b) Day - Means any 24-consecutive hour period beginning at the time

designated by the school district or service provider.

16.03(c) On-duty time - Includes all time worked for any and all employers, including all driving and non-driving duties.

16.03(d) Off-duty time - School transportation vehicle operators may consider waiting time at special events, meal stops and school related events as off-duty if the following criteria are met: (Compensated waiting time does not necessitate on-duty time.)

16.03(d) (1) The operator shall be relieved of all duty and responsibility for the care and custody of the vehicle, its accessories and students, and

16.03(d) (2) The operator shall be at liberty to pursue activities of his/her choice including leaving the premises on which the bus is located.

- 16.4 All school transportation vehicle operators shall document that they are in compliance with this section, hours of service.
 - 16.04(a) An operator's daily log, or equivalent, shall be completed for the trip in the operator's own handwriting, when the trip requires a scheduled or unscheduled overnight stay away from the work reporting location.

4204-R-18.00 Emergency Evacuation Drills

- 18.1 Emergency evacuation drills shall be conducted with students by all school transportation vehicle operators and school transportation paraprofessionals at least twice during each school year, following the procedures in the Colorado Department of Education School Bus/Multifunction Bus/Motor Coach Bus Operator Manual.
 - 18.01(a) One drill shall be conducted in the fall and the second drill conducted in the spring.
 - 18.01(b) Substitute and Multifunction operators of 16 or greater capacity (counting the driver) vehicles shall be trained how to conduct the emergency evacuation drills.
- 18.2 Students on school related events shall receive emergency evacuation instruction prior to departure.
- 18.3 School district and service providers shall maintain records documenting that the required evacuation drills were conducted and/or evacuation instruction was

given.

Colorado SB17-027 - Increase Penalty Texting While Driving

Signed into law in June of 2017 this bill increases the penalty to a \$300 fine and 4 points for each offense. A driver may not be cited for text messaging while driving unless the driver was also operating the motor vehicle in a careless and imprudent manner.

Check your local district/charter or

service provider policy

regarding the use of a cell phone while on duty.

Unit Two - District/Charter and Service Provider Responsibilities - Regulations

District/Charter and Service Provider Requirements

Below are excerpts from 1 CCR 301-26, <u>Colorado Rules for the Operation</u>, <u>Maintenance and Inspection of School Transportation Vehicles</u>.

- 4.1 School districts and service providers shall outline job responsibilities and develop job qualification standards for each school transportation vehicle operator and school transportation paraprofessionals, consistent with federal and state regulations. A copy of these requirements shall be provided to each school transportation vehicle operator and paraprofessional upon employment.
- 4.2 School districts and service providers shall maintain separate files for each school transportation vehicle operator, school transportation paraprofessional, and school transportation annual inspector with written documentation evidencing all listed requirements indicated in Rule 5.00, Rule 6.00 and Rule 7.00, as applicable. Training documentation shall include the trainer name, date of the training, description of the training, duration of each topic covered and the signature of all attendees.
 - 4.02(a) If a school transportation vehicle operator, paraprofessional or annual inspector works for more than one school district, each district shall maintain a file with documentation in accordance with this rule.
- 4.3 School districts and service providers shall ensure all employees required to possess a commercial driver's license (CDL) shall be in a US DOT approved substance abuse testing program.
- 4.4 School districts and service providers shall not permit a school transportation vehicle operator to transport students, while the operator's ability or alertness is so impaired, through fatigue, illness or any other cause, as to make it unsafe for the operator to transport students.
- 4.5 School districts and service providers shall have written emergency procedures and/or contingency plans to be followed in the event of a crash, unexpected school closing, unforeseen route change or relocation of a student stop in an emergency.

- 4.6 School district and service providers shall ensure that documentation outlining transportation related services and requirements, including required use of Child Safety Restraint Systems and medical and behavioral information as it relates to student transportation, is available to applicable school transportation vehicle operators and paraprofessionals prior to providing transportation services.
- 8.04 School districts and service providers shall have a procedure in place to verify that students are not left on an unattended school transportation vehicle.
- 11.1 School districts and service providers must ensure all school transportation vehicles are systematically inspected, maintained and repaired to ensure that school transportation vehicles are in safe and proper operating condition.
- 11.2 School districts and service providers shall have a system to document preventative maintenance, reported defects and repairs made to school transportation vehicles.
- 11.3 School districts and service providers shall maintain separate files for each school transportation vehicle with documentation of all annual inspections, all preventative maintenance and all reported damage, defects or deficiencies and the corresponding repair and maintenanceperformed.
- 11.6 Following a reported damage, defect or deficiency of a school transportation vehicle, school districts and service providers or a representative agent must repair the reported damage, defects or deficiencies, or document that no repair is necessary, ensuring that the vehicle is in safe and proper operating condition prior to transporting students.
- 11.7 School districts and service providers shall not transport students in a school transportation vehicle which is not in safe and proper operating condition. A school transportation vehicle shall be designated as "out-of-service" by a school district or service provider, a school transportation annual inspector or the CDE School Transportation Unit.
 - 11.07(a) Exemption Any school transportation vehicle discovered to be in an unsafe condition while being operated on the highway, roadway or private road may be continued in operation only to the nearest place where repairs can safely be affected. Such operation shall be conducted only if it is less hazardous to the public than to permit the vehicle to remain on the highway, roadway or private road.
- 13.1 Only district personnel, students enrolled in a district, law enforcement officials or individuals that have received prior authorization from the school district

or service provider may be passengers on any school transportation vehicle.

- 13.2 The number of passengers transported on any school transportation vehicle shall not exceed the maximum seating capacity of the vehicle. Small vehicle capacity shall not exceed the number of safety belts as designed by the vehicle manufacturer.
- 13.3 Passengers shall not be permitted to stand in any school transportation vehicle while the vehicle is in motion. This does not preclude authorized persons (such as school transportation paraprofessionals) from completing their duties as required.
- 13.4 School districts and service providers shall consider the size of the passengers when determining the number of passengers that can safely occupy a school transportation vehicle seat.
- 18.2 Students on school related events shall receive emergency evacuation instruction prior to departure.
- 18.3 School district and service provides shall maintain records documenting that the required evacuation drills were conducted and/or evacuation instruction was given.

If a district/charter and service provider is towing a trailer behind a small vehicle, the operator is required to receive training on the trailer pre-trip/post-trip and how to properly operate the vehicle while towing a trailer.

Unit Three - Vehicle Inspections

Vehicle Inspection is a term given to the process of a recommended, systematized sequential procedure for inspecting a vehicle's condition to transport passengers.

During the inspection, drivers try to locate possible mechanical, electrical and/or other conditions by feeling, touching, looking, listening and/or smelling that may cause an interruption of timely service or a collision. Even though many school district/charter and service providers perform inspections somewhat differently, the procedures are basically the same. Performing the inspection is an implied driver duty.

The transportation of pupils is a sensitive job requiring concern for safety and liability.

<u>Never</u> attempt to drive a defective vehicle.

Why should I perform inspections?

Model Traffic Code for Colorado 2020

202. Unsafe vehicles - penalty - identification plates.

It is unlawful for any person to drive or move or for the owner to cause or knowingly permit to be driven or moved on any highway any vehicle or combination of vehicles which is in such unsafe condition as to endanger any person, or which does not contain those parts or is not at all times equipped with such lamps and other equipment in proper condition and adjustment as required in this section and sections 204 to 231 and part 3 of this Code, or which is equipped in any manner in violation of said sections and part 3 or for any person to do any act forbidden or fail to perform any act required under said sections and part 3.

The provisions of this section and sections 204 to 231 and part 3 of this Code with respect to equipment on vehicles shall not apply to implements of husbandry or farm tractors, except as made applicable in said sections and part 3.

Nothing in this Code shall be construed to prohibit the use of additional parts and accessories on any vehicle, consistent with the provisions of this Code.

Any person who violates any provision of this section commits a class A traffic infraction.

4204-R-8.00 Pre-trip/Post-trip Vehicle Inspections

- 8.1 Each school transportation vehicle shall have a daily pre-trip and post-trip inspection performed and documented by the school transportation vehicle operator or a district or service provider authorized transportation employee. A daily pre-trip inspection shall be completed prior to a vehicle being placed in service. A daily post-trip inspection shall be completed at the end of daily operation of each vehicle.
- 8.2 The pre-trip and post-trip inspection requirements for school transportation vehicles, other than small vehicles, shall include at a minimum all items listed on the CDE School Transportation Vehicle (School Bus/Multifunction Bus/Motor Coach Bus) Pre-Trip and Post Trip Requirements Form (STU-9 see addendum).
- 8.3 The pre-trip and post-trip inspection requirements for school transportation small vehicles shall include at a minimum all items listed on the CDE School Transportation Vehicle (Small Vehicle) Pre-Trip and Post Trip Requirements Form (STU-8 see addendum).
- 8.4 School districts and service providers shall have a procedure in place to verify that students are not left on an unattended school transportation vehicle.

Safety of Passengers

Safety is the most important reason you inspect your vehicle. Good inspections provide safety for you and for other road users. A vehicle defect found during an inspection could save you problems later. You could have a breakdown on the road that will cost time and dollars, or even worse, cause a crash because of the defect. School officials and parents trust us with the safety of their children while they are in our care. If you did not perform your pre-trip and a child was injured due to a malfunction of your vehicle that you may have discovered during the course of a pre-trip, how would you possibly explain to that parent why you did not perform your duties as required?

Prevent Breakdowns

A vehicle inspection can, if done properly prevent breakdowns. You are trying to prevent a breakdown by maintaining your bus in its best possible condition. By using a prepared checklist, many items can be checked to determine if the bus is safe and ready to drive.

Preventing breakdowns can eliminate frustrations for you. For instance, by checking the fan belt, its potential to break while on route can be reduced. This will eliminate the frustration of having to wait for repairs or a bus replacement during the bus run.

Every breakdown regardless of the severity causes you and your students to be placed in potentially unsafe circumstances. Anytime a vehicle is along the edge of a roadway it creates a hazard for other motorists, and a school bus on the shoulder will have more than the usual amount of people stopping asking if you need assistance, thus creating an even bigger hazard.

When a school vehicle has a break down it causes great anxiety to some of our younger students, and if you have any medically fragile students it could be life threatening. For instance, consider the student that is a severe diabetic and needs medication at particular times and you are delayed for a substantial amount of time due to a breakdown that could have been prevented by doing a thorough pre-trip.

Reduce Delays

Repairing worn and broken parts not only eliminates frustrations for you, but it also eliminates delays for your passengers. When students do not arrive on time to their destination, problems are caused for the students, teachers and parents.

When students do not arrive on time the phones in the transportation department start to ring "off the walls"! Many families depend on their students to arrive within a specific time frame due to work schedules, and after school events. In the morning when a bus runs late, it could make parents late for work, which causes them unnecessary stress and conflict, or worse yet, expose students to potential threats from wildlife, environment and potential predators.

Prolong Vehicle Life

The daily inspection will help keep the bus in good working order. This, in turn, will prolong the life of the bus and reduce transportation costs.

You are responsible for what happens on your bus run.

Vehicle inspection helps make for a safer trip.

Types of Vehicle Inspections

Pre-Trip Between-Trip Post-Trip

Preventative Maintenance

Annual Inspections

School Transportation Assistance Review (STAR) - Vehicle Inspection

Pre-Trip

One of the most important inspections is the one that you perform as a school bus driver. During this inspection you will check every component listed on your pretrip inspection form to determine if your bus is ready for operation.

You have already reviewed the reason for conducting the inspection and found that they are both legally required, and also required by local school district/charter and service providers.

As you become aware of defects, you must report them immediately. You have a responsibility to drive a safe bus. Mechanics cannot make necessary repairs, nor do they know something is in need of repair, unless they receive appropriate feedback from you.

Pre-trip inspection forms must be kept by your district/charter and service provider for at least six months. The inspection form must be filled out completely with great care. Each inspection form should have a full driver signature.

You may want to consider keeping a copy of your pre-trip inspections to verify that you have completed the pre-trip inspection in the event it is ever questioned by supervision.

Your trainer will go over the specific items of the pre-trip inspection, what should be checked, how it is checked, and how to determine if it is defective.

Between- Trip Inspections

After you complete a bus run and have some layover time you should perform a Between Trip Inspection. There are a number of items that should be checked. Check for pupils remaining in the bus. This is accomplished by walking from the front to the back of the bus and checking in and around every bus seat. Leaving even one child unattended on a school bus is a serious concern for families and schools. The possibility of leaving a child on the bus after a completed bus route is not acceptable and has potentially serious safety ramifications. This preventable problem can be addressed with an effective policy that requires drivers to check their bus before they exit it at the end of their route. See 1 CCR 301.26, 4204-R-8.04

- Check for adequate fuel
- Check for vandalism of seats, walls, windows, etc., that may have occurred during the trip
- Check for anything that should not be on the bus, such as a bag or package that might look suspicious
- Check for materials that pupils may have left behind
- o Pick up trash on the floor, sweep if needed
- Secure bus if not going out on a run immediately

Post Trip Inspections

When you complete your final run for the day a few things should be checked to secure the vehicle and get ready for the next day. In addition to items listed on the STU-8 and STU-9 the Post Trip Inspections may include:

- Check for pupils remaining in the bus. This is accomplished by walking from the front to the back of the bus, and checking in and around every bus seat
- Refuel bus. Record mileage and amount of fuel takenin
- Check for needed supplies
- Clean bus interior

The heaviest amounts of dirt are brought on your bus in the morning when students have been waiting outside to board. If you sweep your vehicle after your morning run, in the afternoon all you have to do is pick up any trash and do a quick sweep and your bus will look neat and clean all day long. Studies show that school buses that are kept clean demonstrates to students that the driver takes pride in caring for the vehicle and in return students will take better care of it as well. It also shows that buses that are well kept, drivers have less discipline issues.

- o Park bus in designated location
- Secure the vehicle
- Close windows and door
- Remove key (follow your district/charter and service provider procedures)
- Remove other equipment, if required
- Turn in items left by pupils
- o Turn in all necessary paperwork and records

Preventative Maintenance

4204-R-11.00 Maintenance and Repair

- 11.1 School districts and service providers must ensure all school transportation vehicles are systematically inspected, maintained and repaired to ensure that school transportation vehicles are in safe and proper operating condition.
- 11.2 School districts and service providers shall have a system to document preventative maintenance, reported defects and repairs made to school transportation vehicles.

- 11.3 School districts and service providers shall maintain separate files for each school transportation vehicle with documentation of all annual inspections, all preventative maintenance and all reported damage, defects or deficiencies and the corresponding repair and maintenance performed.
- 11.4 Any identified damage, defect or deficiency of a school transportation vehicle must be reported to the school district or service provider which:
 - 11.04(a) Could affect the safety of operation of the school transportation vehicle, or
 - 11.04(b) Could result in a mechanical breakdown of the school transportation vehicle, or
 - 11.04(c) Results in noncompliance with Colorado Minimum Standards Governing School Transportation Vehicles (1 CCR 301-25) and/or manufacturer's specifications.
- 11.5 Documentation for reported defects must include all of the following:
 - 11.05(a) The name of the school district or service provider.
 - 11.05(b) Date and time the report was submitted.
 - 11.05(c) All damage, defects or deficiencies of the school transportation vehicle.
 - 11.05(d) The name of the individual who prepared the report.
- 11.6 Following a reported damage, defect or deficiency of a school transportation vehicle, school districts and service providers or a representative agent must repair the reported damage, defects or deficiencies, or document that no repair is necessary, ensuring that the vehicle is in safe and proper operating condition prior to transporting students.
- 11.7 School districts and service providers shall not transport students in a school transportation vehicle which is not in safe and proper operating condition. A school transportation vehicle shall be designated as "out- of-service" by a school district or service provider, a school transportation annual inspector or the CDE School Transportation Unit.
 - 11.07(a) Exemption Any school transportation vehicle discovered to be in an unsafe condition while being operated on the highway, roadway or private road may be continued in operation only to the nearest place where repairs can safely be affected. Such operation shall be conducted only if it is less hazardous to the public than to permit the vehicle to remain on the

highway, roadway or private road.

- 11.8 Following a school transportation vehicle being placed "out-of-service", a school district, service provider or a representative agent must make required repairs, ensuring that the vehicle is in safe and proper operating condition prior to transporting students. In the event of being placed "out-of-service" during an annual inspection, the school transportation vehicle must successfully pass a CDE annual inspection prior to transporting students.
- 11.9 The preventative maintenance inspection on air drum brake systems shall include, at a minimum, that the brake rod travel has been measured and documented. The applied pressure method shall be used.
 - 11.09(a) The inspection interval shall not exceed 4,000miles for buses equipped with a manual slack adjuster air brake system.
 - 11.09(b) The inspection interval shall not exceed 6,000miles for buses equipped with an automatic slack adjuster air brake system.
- 11.10The preventive maintenance inspection interval on air disc brake systems shall not exceed 6,000 miles and shall include, at a minimum; inspection and documentation of:
 - 11.10(a) Inspect the pad thickness by checking the mechanical wear indicators.
 - 11.10(b) Inspect the visible part of the rotors for cracks, excessive wear, damage, etc.
 - 11.10(c) Inspect running clearance. If the caliper has no movement or appears to move greater than the distances indicated by the manufacturer, then a full wheel removal inspection will be necessary.
- 11.11The preventive maintenance inspection interval for hydraulic brake systems shall not exceed 6,000 miles and shall include, at a minimum, inspection and documentation of:
 - 11.11(a) Proper parking brake operation.
 - 11.11(b) Proper brake fluid level and clarity.
 - 11.11(c) Adequate pedal reserve.
 - 11.11(d) Proper hydraulic/vacuum assist operation.
 - 11.11(e) Visual inspection for brake fluid leakage.
- 11.12 If brake adjustment or repair is needed, the work shall be completed by or

supervised by a DOT or equivalent qualified brake inspector meeting the requirements of the Federal Motor Carrier Safety Regulations, 49 CFR section 396.25 (2015). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available at https://www.ecfr.gov/.

School Transportation Assistance Review (STAR) Vehicle Inspection

Approximately every 4 years the CDE School Transportation Unit will be performing an on-site review of all district/charter and service provider vehicle inspections and garage operations. During that review, CDE will randomly do a visual inspection of school transportation vehicles to determine any potential non-compliant concerns with the vehicles and required documentation. It will also review and any non-compliant concerns with annual inspectors and inspections performed for the district/charter and service provider either by in-house technicians or outside CDE approved inspection sites. During the visual inspection if CDE determines that a vehicle(s) has defects that are listed in the CDE Out of Service Criteria or other defects determined to be potentially dangerous, the vehicle will be placed Out of Service until all repairs have been completed.

Some of the most common items found during STAR reviews:

- First Aid Kit Missing and/or missing items
- Seats padding broken down, seat bottoms not secured
- Clean Up Kit Missing and/or missing items
- Instructional stickers by emergency exits peeling or missing
- Lack of documentation
- Unsecured items in the passengercompartment
- Cleaning supplies, unmarked, unsecured (not permitted to hang on the inside of wastebasket)
- Electrical Systems/Lights headlights, tail lights, inoperative or with broken lenses
- Emergency exits hard to open due to lack of inspection, buzzers not working

<u>ALL</u> of the items listed above should be discovered by the school transportation vehicle operator performing a thorough pre-trip, between trip and/or post trip inspection.

Unit Four - Vehicle Operations

Driving a school transportation vehicle takes a great deal of skill and understanding of procedures relating to vehicle operations and laws, or "Rules of the Road" that we must follow. There is an extremely high expectation from the public that we should be nothing short of the <u>very best drivers</u> on the road, because we are transporting members of their families. It is important to follow ALL traffic laws not only when you are driving a school transportation vehicle, but in your private vehicle as well. How you drive your private vehicle, is more than likely how you will drive your school vehicle.

A Defensive Driver Has These Five Characteristics!

<u>Knowledge...</u> knowing traffic laws, recognizes hazards, avoid collisions, and act correctly, in time.

<u>Alertness...</u> aware of your own physical, mental condition that could affect your driving skills.

<u>Foresight</u>... ability to anticipate and prepare for hazards, sizing up traffic situations as far ahead as possible, changes in the driving situation could be a threat to your safety.

<u>Judgment...</u> looking for alertness in any traffic situation, passing when safe, not making risky maneuvers, driver is in control of their behavior.

<u>Skill...</u> behind the wheel, ability to operate vehicle properly and safely. Being able to make turns, change gears, and pass safely & legally

Five Keys to Driving Safely

- Aim High in Steering Look ahead 12 to 15 seconds.
- o Get the Big Picture See what is going on around you.
- Keep your eyes moving Mirrors, mirrors, mirrors.
- Leave yourself an out Plan ahead, cushion.
- o Make sure they see you Eye contact, horn, touch air brakes.

Driving Fundamentals

Before Driving...

- Adjust seat, apply seat belt and adjust all mirrors
- o Make sure you know the location and can reach to operate all controls

Before Starting Engine...

Make sure the park brake is set Transmission is inpark

Vans and Suburban's...

- o Warm up no faster than 1000 rpm's
- Check all gauges for operation (oil, volts, temperature)

Automatic Transmissions...

- Know the shift pattern
- Depress the brake
- Move selector to proper gear
- Release the parking brake
- o As vehicle speed increases, vehicle will shift to higher gear

Allowing a vehicle to coast in neutral is against state law and it can also cause transmission damage

Steering and Turning...

- Make all maneuvers smooth and correctly
- Always hold the steering wheel with a firm grip using both hands. Hand positions recommended are 10-2, 9-3, and 8-4 w/ airbag

Mirrors...

- Get the "Big Picture" keep your eyes moving Looking—Ahead, Left, Right and to the Rear
- o Mirror checks every, 8 to 10 sec. Or more often in unique situations

Lane Use and Position on Roadway...

- Center your vehicle in the properlane
- The shoulder of the road and parking lanes are only for stopping and parking If traveling in two or more lanes in same direction, stay in the far-right lane unless passing
- Drive a safe distance behind other traffic follow the Basic Speed Law if in doubt, always yield right-of-way. Never take it!

Changing Lanes...

- Check traffic approaching from the rear of your vehicle
- Give advanced notice of intention to change lanes by engaging the turn signal.
 Move to passing lane, when passing is complete, engage turn signal to move back into the right lane
- Cancel your turn signal
- o Lane changes should be smooth

Left and Right Turns...

- Check traffic on all sides of yourvehicle
- Signal 100' prior to turning at lower speeds in city or town areas
- Signal 200' prior to turning at 40 mph or higher speeds

Before Turns...

- Downshift and/or brake before entering turns
- Position your vehicle in proper lane giving proper notice to surrounding traffic Wait behind stop lines, signs, crosswalks or sidewalks
- When clear make turn in one complete maneuver

Check Right-of-Way...

- o Traffic, signals, signs, pedestrians, vehicles
- Never shift or brake in a turn
- Enter proper lane Cancel your signal

Turning Around and Backing Maneuvers...

- Signal well in advance by tapping brakes, engaging turn signals, etc.
- Engage hazard warning lights
- o Tap your horn
- Check all mirrors for traffic and obstacles (look over shoulder to clear blind spots)
 Let traffic pass before backing
- Use caution back slowly
- NO U-TURNS on Highways or Interstates (if you miss an exit, go to the next exit)

Curves...

- o Approaching a curve, check traffic in all directions
- o Before entering curve, reduce speed, brake if necessary,
- Keep your vehicle in your lane of travel
- Continue checking traffic in all directions

Expressways...

- o Before entering, check traffic, use proper turn signals
- Merge smoothly into proper lane
- o On expressway maintain proper lane, spacing and speed
- Check mirrors constantly monitoring the traffic in front of, beside and behind you.
- Exit expressway- check traffic Use proper turnsignals
- Do not decelerate until you have entered the exit lane

Starting - Upgrade...

- Check traffic in all directions
- Accelerating slightly, not to roll backward
- Allow distance between you and the vehicle located in front of you

Starting - Downgrade...

- Check traffic and release accelerator select a safe speed
- Downshift (to reduce speed), braking used if additional slowing is needed prior to descending

- o Once a safe speed is obtained, apply brake enough to feel slow down
- Reduce speed 5mph under safe speed, release brakes, this application should be about 3 to 4 seconds
- Once speed increases to the safe speed repeat the procedure

Intersections...

- Observe traffic at least 3 times before approaching intersection monitor any fast-approaching traffic
- Left or right turn signals left on (by other drivers, may not turn) traffic not stopping for stop signs or traffic signals

Stopping at intersections...

- Always yield the right-of-way
- Stop behind- stop lines, signs, crosswalks first, when clear, pull forward of obstruction, then stop a second time
- o Re-check intersection then proceed
- Check mirrors
- Cover brake-prepare to brake if needed

Distance...

- Always drive a safe distance behind traffic (2 second following rule)
- o Add 10 seconds to following distance in adverse weather conditions

Changing Lanes...

- Check traffic in front of, beside and behind your vehicle
- Looking for traffic entering new lane ahead or adjacent
- Engage turn signal (3 flashes)
- Proceed then cancel turn signal

Passing...

- Check traffic signs, road markings to determine if passing is permitted
- Check oncoming traffic, beside and behind your vehicle that may also be preparing to pass
- Engage turn signal
- When clear move into the passing lane
- When there is ample room between your vehicle and the vehicle, you just passed engage turn signal and move back to the right lane approximately 1 to 1 ½ vehicle lengths ahead of passed vehicle
- o Cancel turn signal

Stopping...

- Weight and road conditions affect stopping distance, if possible, check braking capabilities.
- Apply brakes smoothly easing off the pedal just prior to achieving a complete stop.

 When traveling behind other vehicles, make sure you allow ample distance between you and the vehicle ahead of you. You need to be able to see their back tires touching the ground

Parking...

- o Always leave yourself plenty of room to move out of parkingarea
- o Turn wheels toward the curb.
- Shift to park, set the park brake

Rear Overhang and Tail Swing...

Unlike a passenger car, buses have additional room behind the rear wheels to the outside of the bumper. This additional length requires closer observation when making turns as the tail swing can extend three to five feet over the curb. It is especially important when backing into a parking space that you stop so the overhang is not going to hit anything, not until the rear tires hit the curb. At that point, it may be too late, and you have hit the tree next to the curb.

Road Rage

The main characterized of road rage is short periods of irrationality. When this occurs, driver's experience "exaggerated anger", irritation, aggravation and impatience! These emotions lead to impaired judgment, saying or doing things they may later regret, engaging in risky driving behaviors, attempting to punish or retaliate against the offending driver.

How to Avoid Road Rage

- Avoid eye contact aggressive motorist may feel challenged if you stare them down.
- o Do not cut in front of motorists no matter how big of a hurry you are in
- Allow fellow motorist to "cut in" during a traffic jam.
- In rural areas, pull over to allow motorists to pass if several cars pile up behind you.
- Do not drive in the fast lane that is fine for your fellow motorist, but not for those of us who may be traveling slower
- Do not allow your students to aggravate fellow drivers, such as by making obscene gestures or comments.
- o Do not tailgate always maintain a safe distance from the vehicle in front of you.
- Use your horn sparingly if you must get someone's attention in a nonemergency, tap your horn lightly.
- Give the other driver the benefit of the doubt assume that their mistakes are not intentional or personal.

<u>1 CCR 301-26 Colorado Rules for the Operation, Maintenance and Inspection of School Transportation Vehicles (Excerpts)</u>

- 12.1 A school transportation vehicle shall not be operated in a manner which is unsafe or likely to cause an accident or damage of the vehicle.
- 12.2 A school transportation vehicle shall not be placed in motion on a roadway, highway or private road with the passenger entry door/service door open.
- 12.3 A school transportation vehicle's headlights or daytime running headlights shall be activated while the vehicle is in operation.
- 12.4 A school transportation vehicle shall not be fueled while students are on board, except in instances when unloading the students would present a greater hazard or peril to their safety.
- **12.5** Use of tobacco products as defined in Section 18-13-121(5), C.R.S., use or possession of illegal controlled substances use or possession of alcohol and use or possession of marijuana or cannabinoid product, except as otherwise allowed by law, aboard any school transportation vehicle shall be prohibited at all times.
- 12.6 A school transportation vehicle operator shall not consume food unless the vehicle is stopped at a safe location with the park/emergency brake set.
- 12.7 When a school transportation vehicle is equipped with a roof mounted strobe lamp, the use of the strobe lamp is permitted only when the vehicle presents a hazard to other motorists, such as loading or unloading students in inclement weather or to enhance visibility of the vehicle when barriers inhibit such visibility.
- 12.8 A school transportation vehicle operator may use the strobe, in addition to the four-way hazard lamps, to warn other motorists that the vehicle is not in motion or is being operated at a speed of twenty-five miles per hour or less.
- 12.9 The school transportation vehicle operator shall use extreme caution when backing. Before backing on a roadway, highway or private property, the horn or audible warning device shall be sounded and four- way hazard lamps actuated or there shall be a person outside the vehicle giving direction.
 - 12.09(a) Backing a school transportation vehicle when students are outside of the vehicle at a student stop is prohibited.
- 12.10 School transportation vehicles including Type A, B, C and D School Bus, Multifunction Bus and Motor Coach Bus shall not be operated with a trailer or other vehicle attached while students are being transported.

12.11 School transportation small vehicles, with the capacity of 15 or fewer passengers (counting the driver), may tow trailers while students are being transported to the extent that trailering is a necessary component of a district/charter and service provider sponsored program.

<u>Per CRS 25-14-103.5. Prohibition against the use of tobacco products and retail marijuana on school property - legislative declaration - education program - special account (Excerpt)</u>

The general assembly finds that many of the schools in this state permit the use of tobacco products in and around school property. The general assembly further finds that secondhand smoke generated by such activity and the negative example set and frequently imitated by our school children are detrimental to the health and wellbeing of such children as well as to school teachers, staff, and visitors. Accordingly, the general assembly finds and declares that it is appropriate to create a safe and healthy school environment by prohibiting the use of tobacco products on all school property. As used in this section, unless the context otherwise requires:

"School" means a public nursery school, day care center, childcare facility, head start program, kindergarten, or elementary or secondary school through grade twelve.

"School property" means all property, whether owned, leased, rented, or otherwise used by a school, including, but not limited to, the following:

All interior portions of any building used for instruction, administration, support services, maintenance, and storage and any other structure used by a school; except that such term shall not apply to a building primarily used as a residence. All school grounds surrounding any building specified in subparagraph (I) of this paragraph (b) over which the school is authorized to exercise dominion and control. Such grounds shall include any playground, athletic field, recreation area, and parking area; and (III) All vehicles used by the school for the purpose of transporting students, workers, visitors, or any other persons.

"Tobacco product" shall have the same meaning as set forth in section 18- 13-121 (5), C.R.S.

"Use" means the lighting, chewing, smoking, ingestion, or application of any tobacco product.

(a) (I) The board of education of each school district shall adopt appropriate policies and rules that mandate a prohibition against the use of all tobacco products and all retail marijuana or retail marijuana products authorized pursuant to article 43.4 of title 12, C.R.S., on all school property by students, teachers, staff, and visitors and that provide for the enforcement of such policies and rules.

Notice that this says "use" of tobacco products. Noting that there are many drivers that use tobacco products, it is not prohibited for you to carry them on your person or in your private bag, purse, etc. However, it is prohibited from using tobacco products at any time, not just when students are on board. There are many people that have medical conditions that can be aggravated by tobacco smoke, so if you are going to smoke tobacco make sure you are far enough away from the school transportation vehicle that smoke does not enter the vehicle. Smoking is prohibited on school property.

As a school bus driver, the public holds you at a higher expectation. Please do not wear clothing that promotes the use of tobacco, alcoholic or controlled substances. Follow your district/charter and service providers dress code.

1 CCR 301-26 4204-R-14.00 Safety Restraints

- 14.1 A school transportation vehicle operator shall have the safety belt fastened, worn correctly, and properly adjusted prior to the school transportation vehicle being placed in motion.
- 14.2 All passengers in a school transportation vehicle under 10,000 lbs. GVWR shall have their safety belts fastened, worn correctly, and properly adjusted prior to the small vehicle being placed inmotion.

Students requiring restraint devices, including safety (lap) belts, shall have support documentation within the students IEP indicating transportation as a related service.

Who and how many can ride on the school bus?

4204-R-13.00 Authorized Passengers

- 13.1 Only district personnel, students enrolled in a district, law enforcement officials or individuals that have received prior authorization from the school district or service provider may be passengers on any school transportation vehicle.
- 13.2 The number of passengers transported on any school transportation vehicle shall not exceed the maximum seating capacity of the vehicle. Small vehicle capacity shall not exceed the number of safety belts as designed by the vehicle manufacturer.
- 13.3 Passengers shall not be permitted to stand in any school transportation vehicle while the vehicle is in motion. This does not preclude authorized persons (such as school transportation paraprofessionals) from completing their duties as required.
- 13.4 School districts and service providers shall consider the size of the passengers when determining the number of passengers that can safely occupy a school

transportation vehicle seat.

This is self-explanatory, but what about the chaperones' six-month old baby or the drivers' 3-year-old that is not enrolled in a school sponsored program? They may ride ONLY if they are given authorization. If they are given authorization then you, the school bus driver, will be responsible for the proper securement of that child. Check your district/charter and service provider policy.

Per the CDE Annual Inspection/Operation Rules Resource Guide definition of In-Use Capacity - Due to variations in sizes of children of different ages, the number of students that can safely occupy a school bus seat. (NCST)

Excerpt: *The National Association of State Directors of Pupil Transportation Services" (NASDPTS)

NASDPTS believes all children riding in school buses, or other buses used to transport pupils to and from school or school-related activities, should be properly and safely seated facing forward. In addition, the State Directors Association believes there should be adequate space on the seat for the child to be seated completely within the seating compartment.

*School Bus Seat Capacity Position Paper 1999

National Highway Traffic Safety Association recommends that all passengers be seated entirely within the confines of the school bus seats while the bus is in motion. Federal motor vehicle safety standard No. 222, "School Bus Passenger Seating and Crash

Protection" requires that the interior of large buses provide occupant protection so that children are protected without the need to buckle-up. Occupant crash protection is provided by a protective envelope consisting of strong, closely spaced seats that have energy-absorbing seat backs. Persons not sitting or sitting partially outside of the school bus seats will not be afforded the occupant protection provided by the school bus seats.

Manufacturer's seating capacity in school buses can vary greatly depending on the vehicle. They normally set the capacity limits based on three students per seat. So, for three students to fit in each seat they would be required to be elementary students that are quite small. Attempting to put three secondary or high school students in one seat would make it very uncomfortable for the students and more than likely cause one of them to have their feet in the aisle producing a trip hazard and reducing the use of compartmentalization. If you believe that your bus is overloaded, check with your supervisor to see what can be done to reduce your student count. Also, check your district/charter and service provider policy regarding "in-use" capacity.

Use of Hazard Warning Lights

Under certain circumstances operators may use their hazard warning lights to provide an extra margin of safety and while conducting a student loading and discharging passengers when you are in a school transportation small vehicle.

Pursuant to Section 42-4-1903(2), C.R.S.,

School transportation vehicle operators are not required to actuate the alternating flashing red warning signal lamps on a school bus when the student stop is at a location where the local traffic regulatory authority has by prior written designation declared such actuation unnecessary and when discharging or loading passengers who require the assistance of a lift device and no passenger is required to cross the roadway. Further, Type A Multifunction Buses with 15 or fewer passenger capacity (counting the driver) and school transportation small vehicles do not have the functionality to control traffic. In these instances, the school transportation vehicle operator shall stop as far to the right off the roadway as possible to reduce obstruction to traffic, activate the four- way hazard warning lamps a minimum of 200 feet prior to the student stop, continue to display the four-way hazard warning lamps until the process of discharging or loading passengers has been completed, and deactivate the four-way hazard lamps before resuming motion. Students are prohibited from crossing any lanes of traffic to access the student stop or after disembarking.

Per the Colorado Commercial Drivers Manual

Use the four-way emergency flashers for times when you are driving very slowly or are stopped. Warn other drivers in any of the following situations:

Slowing Down...

Warn drivers behind you when you see you will need to slow down. A few light taps on the brake pedal -- enough to flash the brake lights -- should warn following drivers. Use the four-way emergency flashers for times when you are driving very slowly or are stopped. Warn other drivers in any of the following situations:

Trouble Ahead...

The size of your vehicle may make it hard for drivers behind you to see hazards ahead. If you see a hazard that will require slowing down, warn the drivers behind by flashing your brake lights.

Tight Turns...

Most car drivers do not know how slowly you must go to make a tight turn in a large vehicle. Give drivers behind you warning by braking early and slowing gradually.

Stopping on the Road...

Truck and bus drivers sometimes stop in the roadway to unload cargo or passengers, or to stop at a railroad crossing. Warn following drivers by flashing your brake lights. Do not stop suddenly.

Driving Slowly...

Drivers often do not realize how fast they are catching up to a slow vehicle until they are very close. If you must drive slowly, alert following drivers by turning on your emergency flashers if it is legal. (Laws regarding the use of flashers differ from one state to another. Check the laws of the states where you will drive.)

Do not Direct Traffic...

Some drivers try to help others by signaling when it is safe to pass. You should not do this. You could cause an accident. You could be blamed, and it could cost you many thousands of dollars.

Basic Speed Law

Colorado Model Vehicle Code - 1101. Speed limits (2020)

No person shall drive a vehicle on a highway at a speed greater than is reasonable and prudent under the conditions then existing. Except when a special hazard exists that requires a lower speed, the following speeds shall be lawful:

- Twenty miles per hour on narrow, winding mountain highways or on blind curves.
- Twenty-five miles per hour in any business district, as defined in section 42-1-102 (11) CRS.
- Thirty miles per hour in any residence district, as defined in section 42-1-102 (80) CRS.
- Forty miles per hour on open mountain highways.
- Forty-five miles per hour for all single rear axle vehicles in the business of transporting trash that exceed twenty thousand pounds, where higher speeds are posted, when said vehicle is loaded as an exempted vehicle pursuant to section 507 (3).
- Fifty-five miles per hour on other open highways which are not on the interstate system, as defined in section 43-2-101 (2), C.R.S., and are not surfaced, four-lane freeways or expressways.

- Sixty-five miles per hour on surfaced, four-lane highways which are on the interstate system, as defined in section 43-2-101 (2), C.R.S., or are freeways or expressways.
- Any speed not in excess of a speed limit designated by an official traffic control device.

No driver of a vehicle shall fail to decrease the speed of such vehicle from an otherwise lawful speed to a reasonable and prudent speed when a special hazard exists with respect to pedestrians or other traffic or by reason of weather or highway conditions.

Except as otherwise provided in paragraph (c) of subsection (8) of this section, any speed in excess of the lawful speeds set forth in subsection (2) of this section shall be prima facie evidence that such speed was not reasonable or prudent under the conditions then existing. As used in this subsection (4), "prima facie evidence" means evidence which is sufficient proof that the speed was not reasonable or prudent under the conditions then existing, and which will remain sufficient proof of such fact, unless contradicted and overcome by evidence bearing upon the question of whether or not the speed was reasonable and prudent under the conditions then existing.

In every charge of violating subsection (1) of this section, the complaint, summons and complaint or penalty assessment notice shall specify the speed at which the defendant is alleged to have driven and also the alleged reasonable and prudent speed applicable at the specified time and location of the alleged violation.

*"posted speed limit" would also include the speed indicated on any advisory speed signs.

Let us look at the words "reasonable and prudent".

Reasonable is described as:

(of a person) having sound judgment; fair and sensible. "no reasonable person could have objected" synonyms: sensible, rational, logical, fair, fair-minded, just, and equitable; as much as is appropriate or fair; moderate. "a police officer may use reasonable force to gain entry" synonyms: within reason, practicable, sensible.

Prudent is described as:

Acting with or showing care and thought for the future. "No prudent money manager would authorize a loan without first knowing its purpose" synonyms: wise, well judged, sensible, politic, judicious, sagacious, sage, shrewd, advisable, well advised Just remember who is going to determine if your speed was reasonable and prudent!

Your idea of reasonable may not be the same as their idea of reasonable. Always error on the side of safety and reduce your speed.

When you are on school grounds, you should always be going at an extremely low speed, even creeping due to the high volume of people in the general vicinity. If a student were to dart out in front of your vehicle, or slip off the curb would you be able to stop?

SLOW DOWN ON SCHOOL PROPERTY!

Per the Colorado Commercial Driver Manual, when you are driving in heavy traffic, the safest speed is the speed of other vehicles. Vehicles going the same direction at the same speed are not likely to run into one another. In many locations, speed limits are lower for trucks and buses than for cars. It can vary as much as 15 mph. Use extra caution when you change lanes or pass on these roadways. Drive at the speed of the traffic if you can without going at an illegal or unsafe speed. Keep a safe following distance.

The main reason drivers exceed speed limits are to save time. However, anyone trying to drive faster than the speed of traffic will not be able to save much time. The risks involved are not worth it. If you go faster than the speed of other traffic, you will have to keep passing other vehicles. This increases the chance of a crash, and it is more tiring. Fatigue increases the chance of a crash. Going with the flow of traffic is safer and easier.

Of all the space around your vehicle, it is the area ahead of your vehicle the space you are driving into - that is most important.

Managing Your Space

The Need for Space Ahead

You need space ahead in case you must suddenly stop. According to accident reports, the vehicle that trucks and buses most often run into is the one in front of them. The most frequent cause is following too closely. Remember, if the vehicle ahead of you is smaller than yours, it can probably stop faster than you can. You may crash if you are following too closely.

How Much Space? How much space should you keep in front of you? One good rule says you need at least one second for each 10 feet of vehicle length at speeds below 40 mph. At greater speeds, you must add 1 second for safety. For example, if you are driving a 40-foot vehicle, you should leave 4 seconds between you and the vehicle ahead. In a 60-foot rig, you will need 6 seconds. Over 40 mph, you would need 5

seconds for a 40-foot vehicle and 7 seconds for a 60-foot vehicle.

To know how much space you have, wait until the vehicle ahead passes a shadow on the road, a pavement marking, or some other clear landmark. Then count off the seconds like this: "one thousand and-one, one thousand-and-two" and so on, until you reach the same spot. Compare your count with the rule of one second for every ten feet of length. If you are driving a 40-foot, truck and only counted to 2 seconds, you are too close. Drop back a little and count again until you have 4 seconds of following distance (or 5 seconds if you are going over 40 mph). After a little practice, you will know how far back you should be. Remember to add 1 second for speeds above 40 mph. Also, remember that when the road is slippery, you need much more space to stop. Make sure you know the length, height, width, weight to determine clearances for your vehicle.

Behind (Tailgaters)

You cannot prevent other vehicles from following you too closely, however, there are a few things you can do to reduce some of the risk they create.

Slow down

Reduce your speed slowly. By reducing your speed, you reduce risk. If you are traveling at a slower speed, and they want to pass...... let them.

Increase your following distance

When you slow down you should also increase the distance between your vehicle and the vehicle in front of you. This will give you more room to avoid a sudden stop and reduce the possibly of being struck from behind.

Avoid sudden changes

Signal early. Give them time to react if you are turning.

Do Not Play Tricks

Flashing your taillights or applying your brakes suddenly will not do anything but escalate your frustration and increase the possibility of injury to your passengers.

On occasion, there may be animals and other debris in the roadway. Know how much clearance you have between your vehicle and the roadway. Do not take the chance that you could get your vehicle hung up or worse yet have considerable damage done to your undercarriage. Also, do not attempt to go through floodwaters no matter what the depth, turn around find a different route.

Delineators

Delineator posts are green posts with colored reflectors. They are in high risk and informational areas of roadways to convey a variety of messages to motorists. Below are some specifics on delineators.

Delineator—a retro-reflective device mounted above the roadway surface and along the side of the roadway in a series to indicate the alignment of the roadway, especially at night or in adverse weather.

Type III

Three Amber Front Reflectors

These are designed to warn the motorist of existing objects. These objects may not always be in the roadway but are close enough to the edge of the road, to be a potential hazard. Typically, they are near underpass piers, bridge abutments, guardrails, and culvert heads. If a guardrail approach end is not flared, there will be a Type III delineator immediately in advance of the approach end.

Two White Front and One Red Back Reflector

These are designed to warn motorists of acceleration and deceleration lanes ahead. The red reflector is for warning motorists of the wrong way.

Two Amber Front and One Red Back Reflector

These are normally installed in medians for left-turn deceleration lanes.

One Blue Front Reflector

These are for Department of Transportation maintenance crew workers. These are installed at the bridge joints.

Three Green Front Reflectors

These are for Department of Transportation maintenance workers. These are installed in front of approaching guardrails with flare ends, not on bridges. They can be found in front of curb heads.

Red Reflectors

Runaway truck ramps are bordered on each side by red reflectors spaced not more than 50 feet apart.

Delineation Posts

These green posts along the roadway have white and amber reflectors. The color and number of the reflectors on a post indicate a hazard or condition at the edge of the roadway.

- Single White Edge of the road
- Single White Right side of the roadway
- Single Amber Left side of the roadway
- Two White On and Off ramps
- Single Amber Minor problem area
- o Two Amber Moderate to serious area
- Three Amber Life threatening problems (culverts, bridges, guardrails)

Delineator Panels

These are a striped marker consisting of a vertical rectangle with alternating black and retro-reflective yellow stripes sloping downward at an angle of 45 degrees toward the side of the obstruction on which traffic is to pass. These types of delineators can be seen on the end of guardrails, on bridges, etc.

Traffic Control Devices

Standardized traffic controls are used to control and guide driver behavior. Most school bus drivers will be familiar with these devices because of their experience with driving automobiles. This section will briefly review all types of traffic control devices, highlighting some of the less understood, newer devices. Traffic signs can convey many different types of messages to the driver. They inform the driver of laws, warning of hazards ahead, or information and guidance.

Standard Colors:

Red Stop or prohibition

Green Movements permitted, direction, guidance

Blue Motorist services guidance

Yellow General warning

Black Regulation White Regulation

Orange Construction and maintenance warning Brown Public recreation and scenic guidance

Standard Shapes:

Octagon Stop

Horizontal Rectangle Guidance information
Diamond General warning
Pentagon School warning
Pennant No passing warning

Vertical Rectangle Regulatory except for stop/yield

Equilateral Triangle Yield

Round Advance Warning for RR crossing

The United States has moved toward an international system of traffic signs emphasizing pictures and symbols rather than written messages. These signs provide instant communication with the driver since they can be understood immediately without having to be read. Some of the present word signs will remain in use. These signs have proven effective in the past and contain easily understood messages. The three classifications of traffic signs are described below. For consistency, they use standard colors and shapes.

Regulatory Signs

Regulatory signs inform highway users of traffic laws or regulations. These signs are generally rectangular with a black legend on white background. Other colors and shapes are also used. The two most common regulatory signs indicate right-of-way. These are the stop sign and yield sign. Regulatory signs are used to control speeds, such as maximum and minimum speed limits. They are also used to control turning movement. As an example, you may recognize these signs with a red circle and a slash mark, which means, "no" or "do not."

Regulatory signs control parking. When parking is prohibited, the parking signs have red lettering, such as "No Parking at Any Time," "No Stopping Standing or Parking," or "No Parking, Bus Stop." When parking is permitted, the lettering is green, such as "One Hour Parking."

Regulatory signs can also be used to supplement information given by traffic signals, such as "Stop Here on Red" or "Crosswalk." Finally, regulatory signs are used for a variety of other controls, such as to provide axle weight limit (GVWR) or "Road Closed to Through Traffic."

Warning Signs

Warning signs inform the driver of situations ahead that may require extra care. These signs are yellow with black lettering and generally are diamond shaped. Warning signs can be used to show changes in horizontal alignment, such as turns, curves, and winding roads. Various types of intersections ahead are indicated symbolically. These signs can indicate crossroads or "T" and "Y" intersections. Advance warning of traffic control devices can be provided. Sometimes a written message is used, such as "Stop Ahead," or a picture of the device ahead is used, such as a yield sign or traffic signal.

Warning signs are used to show converging traffic lanes, such as the symbolic merge sign or the message or symbolic sign for showing that the right lane ends. They are also used to indicate narrow roadways, such as "Road Narrows" or "One Lane Bridge." Changes in highway design are shown on warning signs as well. Examples include divided highway ahead, divided highway ends, or two-way traffic.

Traffic engineers are increasing the use of roundabouts. Drivers must use particular attention to both warning signs and pavement indicators in these

areas. If the driver becomes confused in these areas, the driver must not stop in the roundabout. The driver should proceed to a connecting road tore-route.

Highway grades and advance warning of railroad crossings are indicated on warning signs. Roadway surface conditions, such as bumps, soft shoulders, and slippery conditions, are also indicated. Various kinds of entrances and crossings are shown on warning signs, such as truck entrance, deer crossing, and bicycle crossing.

Warning signs are used to indicate advisory speeds, such as exit and ramp speeds. A special type of warning sign is the pennant shaped "No Passing Zone" sign. When used, it is on the left side of the road and is used in conjunction with the regulatory "Do Not Pass" sign.

Finally, school signs are special kinds of warning signs utilizing the pentagon shape. These indicate school area and school crossing.

Guide Signs

Guide signs are the third major classification of traffic signs. Guide signs guide drivers along streets and highways, inform them of intersecting routes, or direct them to their destination, be it a city, river, park, or some similar type of destination.

Guide signs are generally rectangular and have a white message on a green background. On conventional roads and streets, black messages on white backgrounds are frequently used as an alternative. In addition, different colors and shapes are used for special purposes.

Guide signs are used to indicate junctions of highways, the direction of a highway, alternate routes, the end of a numbered route, and temporary routes. A variety of advance route turn arrows and directional arrows are common guide signs. Two of the most typical guide signs are the familiar destination and mileage signs. On some of the interchanges, symbolic destination signs are used. A special type of guide sign is used for recreation areas. These signs have a white message on a brown background.

Another special guide sign is the service sign. These are white messages on a blue background. These illustrate the location of a phone or hospital. They also indicate that there are no barriers to the handicapped.

Other service signs indicate gas, food, lodging, or camping either through symbolic or message signs. Mileposts are another form of guide sign. Mileage always runs from south to north or west to east and begins at the state line or at a junction where the route begins. Guide signs are also used to show the locations of airports, bus stations, and train stations.

Finally, special panels reading, "Exit Only," advise drivers of an imminent lane end situation. These signs use the warning sign combination of black letters on a yellow background. Highway construction and maintenance signs fall into the

same three major classifications as other signs, namely regulatory, warning, and guide signs.

Regulatory signs used in construction and maintenance zones use the normal standard colors, shapes, and messages.

Warning guide signs also use the standardized shapes and messages but are distinctive in the black letters used on an orange background. Typical construction and maintenance warning signs warn of construction or a detour ahead. They can also warn of roadwork, shoulder work, or a survey crew ahead. Typical construction and maintenance guide signs provide information on the length of a construction or maintenance zone or the direction of a detour.

Electronic traffic signals

These are valuable devices to control traffic and assign right-of- way. The message in traffic signals is relayed primarily using colors; therefore, the meaning of the colors has been standardized.

- o A steady circular green signal permits traffic to proceed if it is safe to do so
- A steady circular yellow signal always follows a circular green signal or green arrow and warns that the red signal is about to be shown. Drivers must stop if it is possible, and safe to doso.
- A steady circular red signal means stop and remain stopped until a green signal is shown, and it is safe to proceed.
- A steady green arrow may be used instead of a steady circular green signal.
 The driver is permitted to proceed in the direction(s) of the arrow(s) if it is safe to do so.
- A flashing circular red signal means stop and remain stopped until it is safe to proceed. Flashing red signals are used at particularly dangerous locations.
- A flashing circular yellow signal is a warning of a hazardous location.
 Drivers may proceed through but should use extreme caution.

Like traffic signs and signals, roadway markings have a definite purpose and convey a special meaning. In some cases, they supplement the regulations and warnings conveyed on traffic signs and signals. In other instances, they are used alone as there is no other way to effectively communicate this information. Roadway markings are standardized as to color and type of line.

- White lines delineate separation of traffic flows in the same direction.
- Yellow lines delineate separation of traffic flows in the opposite direction.
- o Broken lines are permissive in nature. When traffic permits, broken lines

may be crossed.

- Solid lines are restrictive in nature. Generally, they are not to be crossed.
- o Double solid lines indicate maximum restriction. They are not to be crossed.
- Broken white lines separate traffic lanes moving in the same direction when the roadway has more than one lane of traffic moving in the same direction. Drivers are to drive between the lines and not straddle the lines. Whentraffic permits, broken white lines may be crossed to change lanes.
- A solid white line is used to mark the edge of the roadway/pavement.
 - Pavement edge lines should not be crossed at moderate to high speeds. They may be crossed, however, at slow speeds when it is necessary to pull off onto the shoulder. When solid white lines separate lanes of traffic moving in the same direction, it is recommended to not cross lanes.
- Broken yellow lines separate traffic moving in the opposite direction. When
 the broken yellow line is on the driver's side of the road, it may be crossed if
 oncoming traffic permits. Solid yellow lines also separate traffic moving in the
 opposite direction. When the solid yellow line is on the driver's side of the
 road, it must not be crossed.
- A solid and broken yellow line used together is to delineate a left turn lane.
 The left turn lane is marked on both sides by both a solid and broken yellow line.
 Drivers turning left must turn from this lane.
- A double solid yellow line is used to indicate that traffic from both directions is prohibited from crossing.
- White arrows are used to show direction of travel for a given lane.
- Pavement markings are sometimes used to delineate pedestrian crosswalks.
 These are marked by solid white lines. When lines are used, they run all the
 way across the pavement. If a stop is required, drivers must stop before
 crossing the pedestrian crosswalk.
- Pavement markings are also sometimes used to delineate where a driver is to stop. These stop lines are wide solid white lines painted across a traffic lane. If used in conjunction with a painted pedestrian crosswalk, the stop line will come before the crosswalk. Drivers must stop before the stop line if a stop is required.

Unit Five - Activity Trips

An activity trip is an exciting and special experience for our students. Most activity trips involve bus transportation, and it is important that transportation providers are aware of possible challenges. Challenges, such as selecting the wrong route, running out of fuel, or arriving late to your destination, can occur. In addition, pupil problems can develop because of inadequate food or rest stops. The best way to ensure a safe and happy trip is through pre-planning. Most activity trips will take the driver out of the local district/charter and service provider. If problems occur, the driver will probably have a more difficult time getting assistance. Problems, therefore, take on a more critical nature. Without proper planning, minor problems can become major problems.

Most school transportation operators drive the same streets and roads every day. One of the potential challenges arises when the rural driver is asked to drive a vehicle in a different environment, such as in a metro area like Denver or Colorado Springs. The same challenge holds true for the driver who may be very familiar with metro driving and is asked to drive on mountainous terrain. Therefore, route planning iscritical.

Route Planning

The State of Colorado has many diverse geographical challenges, from the plains to the mountains, rapidly changing weather conditions, wildlife, etc. Therefore, it is critical that the school transportation vehicle operator be prepared for anything that could potentially take place. Make sure you consult with your supervisor to ensure that you have all the details of the trip and to ask questions.

Departure Times and Locations

When the school transportation department schedules a trip, they do their very best to estimate the punch-in, departure, arrival and return times. As a driver, it is very important that you try to maintain the estimated time schedule.

Know the exact location and time

Know when and where you will be picking up the students that will be transported on the trip.

Plan your route

Technology today can give you excellent directions and maps. Determine the route you plan to take, considering road conditions, tolls (who is expected to pay for the toll), traffic congestion, weather, hazards, tunnels, etc. Have an alternate route in mind just in case you need to use it.

Depart on time

Now we know that there are occasions when you may leave the pick- up location late by no fault of the driver. If you are running late, there should be enough time "built-

in" the transport time to give you a few minutes flexibility. DO NOT SPEED!!! If the sponsor is late and tells you to "get us there on time", do your best but do not violate the law and risk your license because the sponsor ran late.

Additional stops

Determine with the trip advisor if there will be any additional stops for food and restroom use on your way to the event or on your return trip. Follow your district/charter and service provider policy when it comes to permitting students to eat in school transportation vehicles. Some suggestions are not to permit canned beverages or soda fountain beverages that do not have sealable lids. Make sure your passengers know where the trash container is and request that they use it. For your comfort and the comfort of your passengers, it is suggested that there should be no more than 90 minutes between stops.

Know the exact location

Know the location of your destination. If this is your first time to the location, you may consider looking on-line to view where the entrances and exits are to the facility.

Drop off and pick-up locations at the event

Before you arrive, ask the trip advisor where they would like to unload students and the exact location and approximate time you need to be there to load students. These times are often not set in stone, as an athletic event may take longer than expected because it went into overtime. Make sure you are there on time and waiting for your students with a vehicle that has already had a pre-trip inspection and the heat/air conditioning is already on. Do not make them wait for you!

Where will you park?

Depending on the size of the vehicle you are driving, finding adequate parking can be a nightmare. Will there be a charge for parking? Will the location support your vehicle weight? Is there easy access in and out of the parking spot? Could you be pinned in? Can you adequately secure the vehicle? At some events, there will be a designated area for school transportation parking.

What is expected of the driver?

Is the driver expected to stay at the destination? Be available if threatening weather is a possibility? Is the driver welcome to accompany the group? Make sure you give the trip advisor your phone number or a means to contact you in the event of an emergency prior to leaving the destination site. Make an agreement as to the exact

time the driver should return to depart. Refer to your district/charter and service provider policy regarding the expectations of the driver and vehicle once you arrive at your activity destination.

Do not leave until all passengers are on board

Make sure that all passengers are accounted for prior to departing. The trip advisor is responsible for the student count and assuring that all the students are on board before departing.

Returning to District/charter and service provider

Once you arrive back to the district/charter and service provider and students are unloading, be polite and ask them to clean up as much trash as possible. Make sure that all students are out of the vehicle and that they have not left any personal belongings in the vehicle. Follow your district/charter and service provider policies regarding fueling, paperwork and of course the cleanliness of the vehicle.

One of the most common complaints of operators is that when they were preparing to take an activity trip, they arrived to find that the previous driver had left the vehicle in an unsatisfactory condition. Trash on the floor, empty drink bottles/cans, food spilled on the seats and floor and they must depart in a few minutes. Put yourself in their position; is that how you would want to find a vehicle that you were planning to use? Even if your district/charter and service provider does not require you to clean the vehicle, be polite and pick up as much as you can.

Leave your vehicle in the condition that you would want to find it if you were the next person using the same vehicle.

The Chaperone/Sponsor Responsibilities

Make sure your chaperone/sponsor knows what their responsibilities are. Double- check your district/charter and service provider policy, but they may include the following.

Communicating

- Trip plan
- Special student needs

Providing passenger information Assisting in maintaining passenger control Supervising

- Rest stops
- Food stops

Field trip activity
Assembly of students and head counts
Passenger instruction

Behavior Problems and Concerns

Concerns may arise while on a field trip due to the nature and length of the trip. Unless adequate plans are made and precautions taken, passenger behavior problems will arise. The following conditions should be identified:

Fatigue

Trip organizers and drivers should plan enough rest and comfort stops to avoid problems arising from fatigue. It is recommended that there be approximately 90 minutes between stops.

Excitability

Trip organizers and drivers should recognize that passengers might get excited due to the nature of the trip. An opportunity should be provided for pupils to vent some of this excitement before an effort is made to restrain them. The group leaders or chaperones should handle problems arising from this situation.

Discomfort

The driver should be alert for conditions that may lead to a pupil's discomfort. The temperature of the bus should be closely monitored, and sufficient fresh air be provided to the passengers.

Guidelines

Trip organizers and drivers should discuss guidelines that are to be followed during the trip. Some school district/charter and service providers provide written guidelines to trip organizers for review before trips are booked. The group leader or chaperone should discuss these guidelines with passengers before the trip begins.

Unit Six - Crashes and Emergency Procedures

Crashes

Procedures

In the case of an accident, the driver should:

- Stop and secure the vehicle immediately. ALWAYS ON THE SAME SIDE AS THE ACCIDENT - NEVER ON THE OTHER SIDE OF THE LANE.
- Activate 4-way hazard lights, if operable.
- Remain at the scene of the accident (there is a severe penalty for any person convicted of leaving the scene of the accident).
- Make certain all passengers are safe. If it is determined that it is unsafe to keep passengers inside the school transportation vehicle, evacuate the passengers to a safe place, away from traffic.
- Notify the proper law enforcement authority and school administrator immediately. If necessary, request emergency medical assistance. On accident alert days, follow the reporting procedures as set out by the local law enforcement agency.
- Check for injuries; render any person injured in the accident reasonable assistance. Remember: Never do more than you are trained to do.
- Remain alert regarding fire or the possibility of fire in any of the vehicles involved in the crash.
- Check for ruptured fuel tank and fuellines.
- Check for electrical fire.
- Check for hot tires that may catch fire. This is caused by metal rubbing against a tire from impact to the final restingplace.
- Mark the scene with emergency reflective triangles as specified earlier in this unit if possible.
- Information such as names, license numbers, registration numbers, location, time, road and weather conditions, insurance information, and witnesses, should be obtained and accurately written down.
- If possible, a transportation staff member should be at the scene to render assistance and take pictures.

Documents

If involved in an accident, the investigating officer may ask the driver to provide:

- The appropriate driver's license
- o DOT medical card
- Proof of insurance
- Vehicle registration
- Pre-trip documentation
- Current CDE Affidavit of Annual Inspection

Emergency Packet

Your District/charter and service provider may require additional information.

- Seating Charts (2)
- o Exchange of Information Form
- Witness Information Form

When you come upon an accident, use caution and continue moving. Staying too long at an accident can lead to another accident, and puts the drivers behind you at risk.

Precautionary Measures

- o Remain alert and briefly size up the accident scene.
- o Resist the urge to rubberneck.
- Begin braking early to warn other drivers to slow down, but do not stop completely.
- Be prepared in case you are involved in an accident or are stopped by law enforcement. Always carry your Driver's License, DOT Medical Card, and the Vehicle Insurance and Registration.

Planning for an Emergency

4204-R-4.00 School District and Service Provider Employment Responsibilities

4.05 School districts and service providers shall have writtenemergency procedures and/or contingency plans to be followed in the event of a traffic accident, vehicle breakdown, unexpected school closing, unforeseen route change or relocation of a student stop in an emergency.

Pre-trip your vehicle

The best deterrent from a breakdown is to inspect your vehicle and do a thorough pre-trip prior to departing on the trip. If a defect is found it is best to find it while you are still at the district/charter and service provider rather than 50 miles up on a mountain highway. Make sure you do an additional pre-trip prior to leaving for your return trip for the same reasons.

Emergency Contact Information

Before you depart on your trip, make sure you have the following contact information

- Driver Supervisor or District/charter and service provider Designee (work and cell)
- District/charter and service provider Office during school hours
- After-hour numbers for mechanic, principals, supervisor for your district/charter and service provider
- Depending on district/charter and service provider policy, if permitted a copy of the CDE Emergency Contact List on board would provide you with other outside district/charter and service providers contact information if you are ever in need of mutual aid due to a breakdown or accident.

Emergency Evacuations

4204-R-18.00 Emergency Evacuation Drills

- 18.1 Emergency evacuation drills shall be conducted with students by all school transportation vehicle operators and school transportation paraprofessionals at least twice during each school year, following the procedures in the Colorado Department of Education School Bus/Multifunction Bus/Motor Coach Bus Operator Guide.
 - 18.01(a) One drill shall be conducted in the fall and the second drill conducted in the spring.
 - 18.01(b) Substitute and Multifunction operators of 16 or greater capacity (counting the driver) vehicles shall be trained how to conduct the emergency evacuation drills.
- 18.2 Students on school related events shall receive emergency evacuation instruction prior to departure.
- 18.3 School district/charter and service provider and service providers shall maintain records documenting that the required evacuation drills were conducted and/or evacuation instruction was given.

Review the evacuations plans with your passengers, and document it. Make sure they know how to operate all exits, communications and where emergency equipment is located.

Remind passengers that there must be unrestricted access to ALL exits.

No wastebaskets, equipment etc.

are to be placed in front on any exits.

Students should know the location of the first aid kits, how to shut off the engine, and set the park brake; unless disabilities of students preclude this. The emergency evacuation drill should be as close to the real thing as possible. The drill should be discussed with the students prior to the day of the drill. The drill should follow the evacuation procedures for the appropriate exit(s) used.

Medical Emergencies

What is the district/charter and service provider/service provider policy if a student or driver should become ill on the trip? Do any of the passengers have any medical concerns that you should be aware of? Epilepsy? Allergy to bees?

Vehicle Information and supplies

Prior to departing on your trip make sure that the vehicle you will be driving has a current CDE Annual Inspection Affidavit inside the vehicle, registration and current proof of insurance. Make sure that you have adequate cleaning supplies, trash bags, etc.

Staking Out Your Vehicle

Emergency Triangles

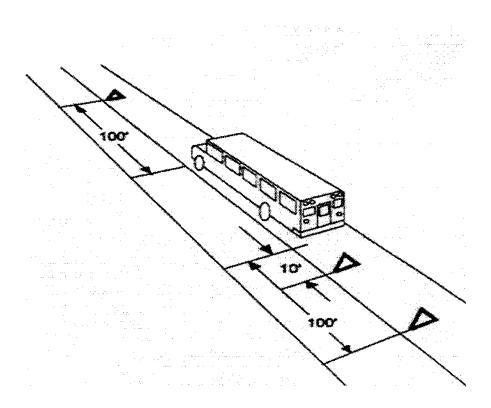
Each school transportation vehicle is equipped with three emergency reflective triangles. In case of a breakdown, accident or other emergency, the driver, paraprofessional, or qualified individual will place the triangles, as the law requires.

When you pull off the road and stop, activate the 4-way hazard lamps. Taillights may not provide adequate warning to motorists. Drivers have crashed into the rear of a parked vehicle because they thought it was moving normally.

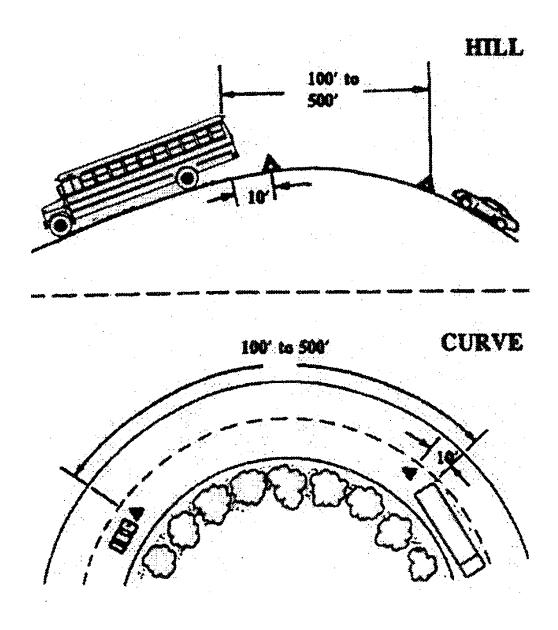
If you must stop on a road or shoulder of a road, set your emergency reflective triangles within 10 minutes.

Placement should be at the following locations:

- o On the traffic side of the vehicle, within 10 feet from the front or rear corners to mark the location of the vehicle.
- About 100 feet behind and ahead of the vehicle, on the shoulder or in the lane you are stopped in. (See figure below).

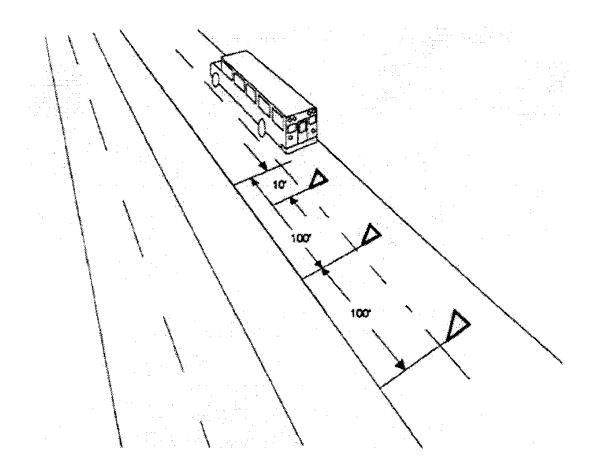


 Back beyond any hill, curve, or other obstruction that prevents other drivers from seeing the vehicle within 500 feet. (See figure below).



Reminder: If the line of sight is obstructed due to a hill or curve, move the rearmost triangle to a point giving adequatewarning.

 If you must stop on or by a one-way or divided highway, place warning devices 10 feet, 100 feet, and 200 feet toward the approaching traffic. (See figure below)



When placing the triangles, hold an assembled triangle <u>toward</u> the oncoming traffic. This enhances safety by increasing visibility to other drivers (especially at night).

When the triangles are unfolded for use, the weighted base <u>must be turned</u> so it makes a cross with the bottom of the triangle to keep the triangle from tipping over.

Safety of the students is your first priority, not the fire!

Small Vehicle Required Emergency Equipment

1 CCR 301-25, 2251-R-20.06

Small vehicles shall carry the following emergency equipment.

20.06(a) Three (3) emergency triangle reflectors in a securely mounted case.

20.06(b) One 24-unit first aid kit as found in 20.02.

20.06(c) One securely mounted $2\frac{1}{2}$ pound, dry chemical fire extinguisher with a minimum rating of 1A10BC.

20.06(d) One durable webbing cutter having a full width handgrip and a protected blade. The cutter shall be mounted in a location accessible to the seated driver.

20.06(e) One basic body fluid clean-up kit as found in 20.04.

Optional Emergency Equipment may include:

- Blankets
- o 2-way radio, cellular phone
- Emergency information forms
- Accident check list
- Student list
- Flashlight
- Disposable mask
- o Bag of salt, kitty litter, or sand

Fire Extinguisher Operation

- o Hold the extinguisher upright. It should not be held on its side when operating.
- Twist and pull safety pin, breakingseal.
- Squeeze the handle to discharge powder. Aim at the base of the fire closest to you and progress forward, moving the discharge cone from side to side in a sweeping motion.
- Turn extinguisher on and off as desired to control the fire.

- o After use, report extinguisher for replacement or recharge.
- With engine fires, never open the hood, it could cause a flashback. Do your best to direct the fire extinguisher stream through grill or under fenders?
- If possible, stand upwind from burning material to prevent standing in smoke and heat. Avoid standing near areas of flammable, unburned materials that could catch fire in a flashback.
- The fire extinguisher is to help you safely evacuate students from a burning vehicle. It does not have sufficient capacity to extinguish a major vehicle fire.

Contents of the 24-unit First Aid Kit

| <u>Item</u> | <u>Unit(s)</u> |
|---|----------------|
| Adhesive Tape | 1 |
| 1-inch adhesive bandage | 2 |
| 2-inch bandage compress | 1 |
| 3-inch bandage compress | 1 |
| 4-inch bandage compress | 1 |
| 3-inch x 3-inch plain gauze pads | 1 |
| Gauze roller bandage 2 inch wide | 2 |
| Plain absorbent gauze - ½ square yard | 4 |
| Plain absorbent gauze - 24-inch x 72 inch | 3 |
| Triangular bandages | 4 |
| Scissors, tweezers | 1 |
| Space rescue blanket | 1 |
| Non-latex disposable gloves, pair | 1 |
| CPR mask or mouth to mouth airway | 1 |

Caution: At a minimum, replace gloves on a yearly basis.

Be aware that people can be allergic to latex.

Never administer medicines, ointments, sprays, or other chemicals.

Body Fluid Cleanup Kits

Body fluids of all persons should be treated as if they contain infectious agents (germs). The term "body fluids" includes blood, semen, drainage from scrapes and cuts, feces, urine, vomit, respiratory secretions (e.g. nasal discharge) and saliva. Contact with body fluids presents a risk of infection with a variety of germs. However, in general, the risk is very low and dependent on a variety of factors including the type of fluid with which contact is made. Put on disposable gloves prior to the cleanup process. Body fluids must be contained or removed immediately, using established district/charter and service provider procedures. Wash contacted area with warm, soapy water as soon as possible.

1 CCR 301-25, 2251-R-20.04

Body fluid cleanup kit: Each school bus shall have one removable body fluid clean-up kit accessible to the driver.

Contents of Body Fluid Cleanup Kit:

| <u>Item</u> | Unit(s) |
|--|---------|
| Antiseptic towelette | 1 |
| Disinfectant towelette | 1 |
| Absorbing powder (capable of ½ gallon absorption) | 1 |
| Non-latex disposable gloves, pair | 1 |
| Disposable wiper towels | 2 |
| Disposable scoop bag with closure mechanism and scraper | |
| Moisture and dustproof kit of sufficient capacity to store the required items. | |

Emergency Procedures

Despite good design, engineering, and preventative maintenance programs, there may be mechanical failures. The driver should do the following in case of a busbreakdown:

Mechanical Failure/Breakdown Procedure

- Stop the vehicle as far to the right of the road as possible or on the shoulder of the road, as conditions permit.
- Activate 4-way hazard lamps, if operable.
- Keep passengers in the vehicle unless conditions are unsafe.

o If the location of the vehicle is unsafe, evacuate the children to a safe place away from traffic. Conditions such as possibility of fire, bus stalled on railroad tracks or other dangers may warrant evacuating the students.

Reminder: If emergency conditions exist, <u>evacuate the students first</u> and then worry about securing the external area around the bus.

- Notify your school authorities, giving bus number, location of the bus, description of the breakdown and if you have to evacuate the vehicle.
- o Place emergency triangles as specified previously in this unit.

Do not move the vehicle unless instructed by a law enforcement officer/fire department or as posted.

Exceptions: C.R.S. 42-4-1602

(2). When an accident occurs on the traveled portion, median, or ramp of a divided highway and each vehicle involved can be safely driven, each driver shall move such vehicle as soon as practicable off the traveled portion, median, or ramp to a frontage road, the nearest suitable cross street, or other suitable location.

If vehicles have to be moved, mark the pavement around each tire, if possible. Never admit fault but be cooperative with the investigating officer. Provisions will need to be made for transporting children to their homes or to school.

Never do more than you are trained to do.

School Bus Emergency Evacuations

Planning for emergencies and knowing what to do at the time of an emergency will prevent panic and confusion. When a large number of passengers are moving rapidly to evacuate a bus, there is always the possibility of panic and injury. The safety of the students is to be given first priority. In the majority of emergency situations, the bus is the safest place for the passengers unless extenuating circumstances warrant evacuation from the bus.

The following are examples of serious types of emergencies that may require emergency evacuation. In most cases, the front door evacuation is the safest.

For all types of emergencies, it is imperative that you remain calm.

DO NOT PANIC!

Front-end crashes

Determine which of the exits may be used.

- Check for any serious injuries.
- Look for fire.

Rear-end crashes

- Follow the same procedures for a front-end accident.
- Do not use the rear exit.
- Look for fire.

Broadside accidents

- Determine which exit may be used.
- Follow the same procedures as for front/rear-end accidents.

Rollover accidents

- Use rear exit, roof hatches, if available, and windows along top if they are free of broken glass.
- If fire does not exist and the bus is not lying on the front door side, this exit may also be used.
- Follow steps outlined for front/rear-end evacuation.

Fire

- Follow the evacuation procedures outlined for rear-end and front-end accidents.
- Use the exit furthest from the fire.
- Many injuries are caused by panic rather than by fire itself. This can be avoided if everyone stays calm.

Railroad Crossing

- Use front-end or rear-end accident evacuation procedures.
- Stay clear of all traffic, and keep students in a group.
- DO NOT re-enter the bus.
- \circ Have students move away from tracks, in the direction of the oncoming train at a 45 $^\circ$ angle from the tracks.

Blizzard (visibility zero)

o Remember, it is warmer inside thanout.

Flood waters

- Do not drive through water rushing across the roadway unless instructed to do so by a law enforcement officer.
- o If the vehicle stalls during a water crossing, notify dispatch.
- Evacuate passengers if situation warrants. What is the safest option for the students?

Under no circumstances should any student move another student who is injured without the permission of the bus driver or emergency responder attending the accident.

Students should know:

- The location of the first aid kits
- How to shut off the engine
- How to set the park brake; unless disabilities of students preclude this.

The emergency evacuation drill should be as close to the real thing as possible. The drill should be discussed with the students prior to the day of the drill. The drill should follow the evacuation procedures for the appropriate exit(s) used.

If there are potential language barriers, drivers should be made aware of it so they can prepare ahead of time to address the situation.

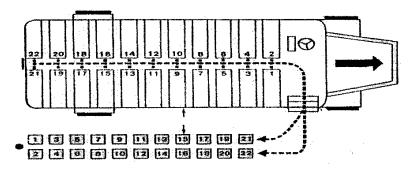
General Procedures for Evacuations

Follow these general procedures in any evacuation:

- o Above all-remain calm.
- Evaluate the situation.
- Is evacuation necessary?
- o Injuries?
- o Which exit is best to use?
- o Determine a safe waiting area.
- Notify proper authorities.
- Secure Vehicle (all drills)

- Set park brake.
- Put transmission in neutral (automatic) reverse (manual) or park if so equipped.
- Turn off engine.
- Turn on 4-way hazard lamps (if operable).
- Determine which door is best to use for the evacuation.
- Know the number of students on the bus.

Front Door Evacuation

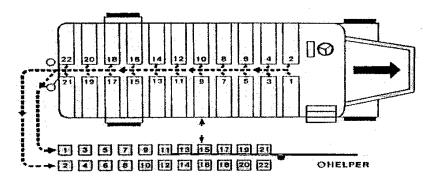


Emergency Evacuation Using Front Door

Notify the proper authorities and school administrators as soon as possible.

- Driver should stand and face students.
- o Get students' attention speak clearly and concisely.
- o Announce "Remain seated, emergency evacuation, front door." Tell students the location of the safe waiting area, at least 100 feet or more from the bus and
- the roadway. All belongings are to be left on the bus. Students should be supervised, if possible.
- Evacuate the bus by dismissing students. Driver should move backwards down the aisle, dismissing the students row by row.
- o If possible, give the first aid kit(s) to the first two responsible students exiting the bus. Do not impede the flow of the students exiting.
- Begin at the front of the bus, starting at the right side; alternate side-to-side, row by row, until students have exited the bus.
- Check each seat as you move back to the front of the bus to make sure all students have evacuated the bus.
- Account for all students.
- Render first aid if necessary.

Rear Door Evacuation



Emergency Evacuation Using Rear Door

- Use the rear door when front door evacuation is impossible or unsafe to use, or when it is imperative to evacuate as quickly as possible by using rear exits.
- o Notify proper authorities and school administrators as soon as possible.
- o Announce, "Remain seated, emergency evacuation, rear door." Tell students the location of the safe waiting area. All belongings are to be left on the bus.
- Assign two (2) "helpers" to assist students. Have them "sit" on the floor at the emergency door and "scoot" out of the door onto the ground. One helper is positioned with their back to the emergency door, so door will not swing against the students. The other helper is positioned on the other side of door area.
- Helpers need to hold a hand open, palm upward and extended for the student to place his/her hand on it. The other hand will support the upper part of the arm of the student to minimize the possibility of the student falling forward.

Helpers are very important in preventing injuries when exiting the bus from the rear door

- Evacuate the bus by dismissing students. Driver will move backwards from rear row of seats, dismissing students row by row.
- Begin at the back row and continue to the front; alternate side-to-side, row-by-row, until students have exited the bus. If possible, give the first aid kit(s) to the last two responsible students when they are out of the bus.
- Students should sit at the rear door, and then scoot through the door onto the ground with the helper assistance.
- Students should walk to the safe waiting area.
- Check all seats for students as you move towards the back of the bus.
- o Have the helpers "assist" you out of the rear of the bus.

- Account for all students.
- o Render first aid as necessary.

Emergency Evacuation Using the Front & Rear Doors (Combined)

Follow procedures outlined for both front door and rear door evacuations. (Driver will not be able to dismiss the rows.)

The fastest method for bus evacuation is the combined evacuation, using the front and rear doors.

Side Door Evacuation

- Follow the above procedures for a rear door evacuation with the following exception to dismissing the students:
- Begin at the seat nearest the exit, approximately sixth from the rear. Work to the rear alternating side-to-side, (a closed space), then return to seat immediately in front of the rear side exit and work to the front alternating side to side.
- Using a side door exit is a more difficult evacuation procedure because of the height of the door from the ground. With small children, you might have to assist them from the door to the ground.

Emergency Evacuation Using Side & Front Door Exits

 Begin at the seat nearest the side exit, work to the rear alternating side to side (a closed space). Use a helper to evacuate front door students. Driver should return to the front of the bus, check for students while exiting through the front door.

Emergency Evacuation - Students with Special Needs

- Care should be taken to plan for students with special needs who are riding on the bus. Know procedures to be followed to safely evacuate each student. It is advisable to talk to parents or guardians of the students with disabilities to properly plan for an emergency evacuation. Teachers and school staff who work with these students can also help communicate the individual needs of each child. The Colorado Department of Education has guidelines for preparing an evacuation plan. Responsible students may be assigned to help a student with special needs get to a safe area away from the bus, traffic and other dangers. The plan should address each student's characteristics and abilities. A written plan should be developed, maintained with the route sheet, and out of sight of everyone who may get on the bus. All drivers should be familiar with where the plan is located and review it prior to departing on a route.
- o When possible, make sure to include students with special needs in the discussion, as well as having them participate in the actual drill. If you wish to

- include students with special needs in the drill, get permission from parents/guardians.
- o Stand, facing students and tell them they are having an emergency evacuation drill. Remind students to leave books, lunches, etc., on the bus. The drill should be timed. Most important is how the students exit the bus; calmly, orderly, and following directions. When the drill is over, have the students get back on the bus. Spend a few moments discussing the drill. Point out the positive things that occurred and discuss ways to improve the drill.

For additional information regarding evacuating special needs students check out

http://www.cde.state.co.us/transportation/2019coloradostudentwithdisabilit iestransportation

Unit Seven - Adverse Weather and Mountain Driving

In this unit, there is information on adverse weather conditions, driving techniques, and information pertinent to School Bus Driving in all weather conditions experienced in Colorado. Becoming aware of the effects on the performance of the vehicle and the proper procedures to counter the effects of the conditions will provide the understanding required to respond correctly. Slow down, pull over, or make the decision to reschedule. Safety must be the driver's primary concern.

Wind

Strong winds affect the handling of a school bus. It may be harder to steer and stay within the lane of travel during high winds. Wind gusts can push on the side of the bus, causing it to thrust sideways. In extreme situations, roof hatches have popped open and ripped off. Extreme wind may also cause difficulty keeping the bus in the proper lane of traffic. Overcompensated steering can cause the bus to tip over or leave the lane of travel. Wind may blow around debris that can hit the bus causing damage or injuries.

Strong winds increase just prior to, and in the beginning of a change in weather. During thunderstorms, dust storms, and blizzards, visibility can be severely impaired. Operators should be cautious when crossing bridges and overpasses, driving between hills, exiting tunnels, on open straight-away, and when passing high-profile vehicles.

Tips for driving in strong winds:

- Grip Keep a strong grip on the steering wheel. Anticipate wind gusts.
- **Speed Reduction** Reduce speed to lessen the effect of the wind or pull off the road and wait.
- **Pull Over** Pull onto a solid shoulder, side road, or parking lot.
- **Call** Contact Dispatch to convey the situation and ask for instructions.
- Observe Surroundings Watch for blowing debris, falling trees or power lines. Reduced visibility may occur from blowing dust, sand, or snow.
- **Prepare** Always be prepared for the unexpected.

Tornados

A tornado is a violently rotating column of air. In the northern hemisphere, tornados rotate counterclockwise. They develop in warm, moist air, in advance of an eastward moving cold front. Most tornados move southwest to northeast. The average forward speed of a tornado is 30 mph, but can be up to 70 mph. When the temperature is between 65 and 84 degrees and the dew point is above 50, the dangers of a tornado are at the highest. They often accompany severe thunderstorms. Tornados are common in eastern Colorado. Though they are rare, tornados are possible in the mountains, foothills, and western valleys.

Tornado Signs:

- Green-colored sky
- Hail
- Wall Cloud
- Funnel Cloud

Many say a tornado sounds like a freight train approaching. If a tornado does not appear to be moving, it may be coming toward you. If you are in the bus and see a tornado, evacuate to a safe location, preferably a building. When in a building, go to an interior room or basement, away from windows, and have all passengers sit and cover their heads with their hands. When in the direct path of a sighted tornado and shelter in a building is not available and an evacuation is ordered, escort passengers to a nearby ditch, culvert, or depression. Direct all passengers to lie face down on the ground with their hands covering their head. They should be far enough away so the bus cannot topple on them. Avoid areas that are subject to flash floods. Never go under a bridge or overpass. This area can become the equivalent of a wind tunnel.

Microbursts and Macro Bursts

Microbursts and Macro bursts are intense, localized downdrafts of air that spread on the ground causing rapid changes in wind direction and speed. They can produce winds of more than 100 mph that can cause significant damage. A macro burst can cause more damage to a widespread area than a microburst. They are hard to detect, so be careful when thunderstorms and high winds are in the area. Keep a tight grip on the steering wheel and pay attention to weather watches and warnings.

Lightning

Sudden storms can produce lightning. If a severe storm produces lightning, the safest place is in the bus. Avoid touching metal objects or pulling over in high-risk areas (canyons, near power lines, or tall trees).

Water on Roadways

Water on brake drums will reduce braking efficiency. A light application of the brakes can prevent excessive water between the drum and brake pads. During excessively wet conditions or after passing through standing water, it may be necessary to apply the brakes slightly for a short distance to dry them out and restore normal braking.

Never attempt to drive in flowing water, as the depth and force of the current is unknown. Dangers may not be visible. There may be debris, downed power lines, or washed-out portions of the road.

Slippery Surfaces

Bus braking or steering cannot occur unless there is traction. Road conditions may reduce traction and require slower speeds. When slick road conditions exist, it will take longer to stop and be harder to steer the bus without skidding. Slippery surfaces can more than double stopping distances.

Common Slippery Surfaces:

Shaded Areas - Shady parts of the road may remain icy and slippery long after open areas have melted and dried.

Bridges - When the temperature drops, bridges will freeze before roads. Be especially careful when the temperature is near freezing (32 precise).

Snow - There are different types of snow that provide different levels of traction. The most traction comes either from dry granular or very cold snow. Packed snow may provide better traction than freshly fallen snow. As variations in temperature occur, at or near the freezing/melting point (32年), vehicles will have the least amount of traction. This presents the most dangerous road conditions of ice on snow, or snow on ice. Roads are most hazardous when snow or ice begins to melt. Take extra caution on packed snow or icy roads when the outside temperature is near the melting/freezing point (32中F).

Black Ice - When the temperature is below freezing and the road appears wet, it could be black ice. This is a thin layer of transparent ice that can be present anywhere, especially in high-traffic intersections and windswept areas.

Hail - While similar to ice, hail provides a unique set of hazardous circumstances. Hail on roadways can produce an extremely slippery and uneven road surface. Large hail can break the windshield and windows. Children should protect themselves from flying glass should a window break.

Rain - When it starts to rain, the water mixes with oil and other road grime making the road very slippery. Standing water on the roadway may lead to additional challenges such as hydroplaning.

Hydroplaning - Hydroplaning can occur on any wet road surface. The first 10 minutes of a light rain can be the most dangerous. When a tire encounters more water than it can scatter, water pressure in the front of the wheel pushes water under the tire, thus separating the tire from the road surface with a thin film of water. The result is loss of traction, steering, braking, and power control.

How to avoid hydroplaning:

- Slow down when roads are wet. The faster the speed, the harder it is for tires to scatter water properly.
- Stay away from puddles and standing water.
- Do not use cruise control, if equipped.
- Drive in a lower gear.
- Avoid hard braking.
- Try to avoid making sharp or quick turns.

<u>Mud/Mudslides</u> - Wet, non-paved or paved roads where excessive mud is present can be slippery and may be virtually impassable.

<u>Heat</u> - Excessive heat may cause the tar in the road pavement to rise to the surface. These areas can become soft or slippery.

<u>Other</u> - Anti-icing and de-icing materials used on roadways (i.e. gravel, magnesium chloride, and salt) to improve traction. In some instances, these materials can decrease traction.

Skids

A skid happens when a vehicle's tires lose traction on the road. Some common ways this can happen are:

- **Over-braking** Either braking too hard and locking up the wheels or using the retarder when the road is slippery.
- Over-steering When the operator turns the wheels sharper than the bus can turn at a given moment.
- **Over-acceleration** When the drive wheels' spin due to too much power sent from the operator.
- Driving too fast Serious skids result from driving too fast for road

conditions. Operators who adjust their driving to the conditions do not over-accelerate and do not have to over-brake or over-steer from gaining too much speed.

Drive-Wheel Skids

The most common skid is one where the rear wheels lose traction through excessive braking or acceleration. Rear wheel braking skids occur when the rear drive wheels' lock. This usually happens on slippery surfaces. Because locked wheels have less traction than rolling wheels, the rear wheels usually slide sideways in an attempt to "catch up" with the front wheels. In a bus, the vehicle will slide sideways into a "spin out".

To correct a drive-wheel skid:

- Stop accelerating.
- Stop braking to allow the rear wheels to roll again.
- Turn into the direction of the skid by looking where you want the bus to go.
- Counter-steer after control of the bus resumes by turning the steering wheel in the direction desired.

Front-Wheel Skids

Driving too fast and having inadequate tread depth on the front tires causes most front- wheel skids. In this type of skid, the front of the bus tends to go in a straight line regardless of how much the steering wheel is turned. This causes extreme difficulty (if not impossibility) when steering around a curve or turn. To correct a front-wheel skid, release the accelerator and do not brake. This will allow the front wheels to turn again and regain traction.

Learning to stay off the brake and react quickly during a skid takes a lot of practice.

The best place to practice this is on a large driving range or "skid pad".

Winter Driving

Weather conditions can be unpredictable, placing extra demands on the bus and operator. Always be prepared for winter roads and adjust speed to the existing conditions. Three key elements to safe winter driving are to stay alert, slow down, and stay in control. Drive according to highway and weather conditions. Some bridges and overpasses in Colorado are heated or have de-icing sprayers. This creates an abrupt change in road conditions. Scan ahead and be aware of these locations.

In winter and especially during poor weather conditions, it takes longer to stop

on a slippery road. It is important to leave plenty of space between the bus and the vehicle ahead to avoid sudden braking situations. A guide to safe spacing in these conditions is to double the "four - five second rule".

Using a lower gear than you normally would for the type of road helps the driver maintain control of the vehicle in winter driving conditions.

Be aware that snow on the road may be slippery, drifted, or hard-packed. It can also be smooth, soft, rutted, or slick-tracked. Slick track happens when traffic has packed the snow enough to cause icy conditions. Because the bus usually tracks wider than the preceding vehicles that formed the hard pack, ruts, or slick tracks, maintaining control may be difficult. Rather than allowing the bus to sway back and forth between the two narrow tracks or ruts, adjust lane positioning to ride in the untracked snow within the lane. Riding outside of the tracks or ruts will help to maintain speed and steering control.

Wet snow can cause slushy roads. Heavy slush can build up in the wheel wells of the bus and can affect steering. Remember to look ahead to recognize hazards in plenty of time to respond.

Reduced Visibility

School Bus Operators can expect to experience all the following driving hazards that may result in reduced visibility. The most important response is to slow down. Maintain a speed that allows safe continuation in these conditions:

Fog

Sun

Dust

Rain

Snow

Debris

Smoke

Terrain

Hail/Graupel Darkness

Light variations Vegetation

Additional Hints and Reminders

- Check road conditions prior to departure.
- Speed should be conservative when conditions are less than perfect. Maintain a speed that allows you to stop quickly in the event of the unexpected.
- Know your limits and the bus's limits. Pull off to a safe location rather than continuing in adverse or unsafe conditions.
- Test traction and braking ability in a safe location free from traffic

or other hazards.

- False shoulders exist in all seasons (i.e. snow, tall grasses, and heavy rains). Be aware of your surroundings at all times.
- Increase following distance.

This section provides information on safe travel in the mountains. Mountain driving presents unique situations that require greater attention to the same driving skills and expertise expected of all school bus drivers. Steep grades, winding roads, blind curves, falling rocks, wildlife, sightseeing motorists, bicyclists, and unpredictable weather can present additional risks and consequences. There is a reduced margin for error and minor mistakes can develop into major problems. Mountain driving requires a high level of concentration and a respect for the terrain.

<u>42-4-1901 (1) (a), C.R.S. Except</u> as provided in paragraph (a) of subsection (2) of this section, passengers of any school bus being used on mountainous terrain by any school district of the state shall not occupy the front row of seats and any seats located next to the emergency doors of such school bus during the period of such use.

(b) For purposes of this section, mountainous terrain shall include, but shall not be limited to, any road or street which the department of transportation has designated as being located on mountainous terrain.

On and after July 1, 1992, the driver of any school vehicle as defined in section 42-1-102 (88.5) owned or operated by or for any school district in this state shall have successfully completed training, approved by the department of education, concerning driving on mountainous terrain, as defined in section 42-4-1901 (3) (a), and driving in adverse weather.

Mountain Driving

This unit focuses on maintaining control, transmission and retarder usage, braking, pitch and grade, chains, and other skills for safe school bus operation in the mountains. CDE recommends frequent skill refresher training for mountain drivers.

Target Speed

Target speed is the speed a driver determines is safe for a driving condition. When the bus speed increases above the target speed, the driver slows to 5 mph below the target speed and allows the bus speed to increase naturally back to the target speed. Repeat this process as needed. If this process is happening often, the driver has not shifted down to a gear that will provide the engine compression to hold the vehicle at or below the target speed.

Maintaining Control

To maintain control of a school bus on steep mountainous terrain, follow the steps below for safe control:

- 1) Engine Compression/Transmission
- 2) Retarder Use (if equipped)
- Service Brake Use

A driver is in control when the school bus is kept at a safe road and engine speed. A safe school bus speed is either at or below the posted limit. The bus manufacturer determines safe engine speed (revolutions per minute/rpms).

Engine Compression/Transmission

Engine compression is the first source of braking power, even if the bus is equipped with a retarder. When coming down a long steep grade, descend in a gear that is low enough to climb that same grade. On steeper grades and/or with a loaded bus, use at least one gear lower. Be aware that if the engine reaches maximum rpms, automatic transmissions can up-shift, even when manually locked in gear.

Select the proper gear for the grade before starting to descend and keep the bus in that gear to the bottom of the grade. Avoid the possibility of not being able to shift into the next lower gear, if needed. This is especially important with a standard transmission. Maintain the manufacturer's recommended rpm range for the gear selected to avoid over-revving or lugging, which may damage the engine.

Discuss recommended rpm ranges for all types of buses in the fleet.

Service Brakes

In mountain driving, the force of gravity plays a major role. Gravity will make the bus speed up when going down steep grades. The heavier the load, the faster the bus will gain speed. Go slowly enough to avoid the use the service brakes to maintain a safe speed. Prolonged use of the service brake causes brake "fade" (less stopping power). Brake fade occurs when heat build-up causes the brake lining to glaze or deteriorate at high temperatures. This decreases or eliminates the effectiveness of the brakes, and in extreme cases, can cause a fire. Never exceed a safe controlled speed. For long downhill grades, maintain safe speed by properly using engine compression and the retarder (if so equipped). This helps ensure minimal use of the service brakes. Use the service brakes intermittently, with enough time between applications to keep the linings, drums, and/or rotors cool.

Pass Checks

Pull over at a safe location prior to beginning a decent. As you enter the parking

area, apply firm pressure on the brakes checking for proper stopping and that the bus does not pull. Do a walk around to ensure all lights are working. Stop at each wheel and feel the hub for signs of heat. Look at the slack adjusters to ensure they are all indicating proper adjustment. Look at all tires for damage and proper inflation. Place the bus in the proper gear to descend the downgrade.

When approaching a downgrade where a full check of the vehicle is not possible, prior to reaching the apex of the hill, firmly apply the brakes to feel for proper brake response and no pulling in either direction. Shift down to the proper gear prior to the apex of the hill.

Pullouts

Use pullouts to allow traffic backed up behind the bus to pass safely. If a pull out is large enough, maneuver the front of the bus so that you can look over your shoulder for oncoming traffic before reentering the roadway. Do not rely solely on the mirror if the opportunity to square off and look exists.

Pitch and Grade

One of the hardest techniques to learn may be reading terrain. Maintain a safe scanning distance and scan the entire area for changes in grade, upcoming curves, wildlife, and traffic. When possible, look through the trees beyond the curve before entering.

Tips for Reading Terrain

- Whitewater indicates a steep grade
- Objects that seem to change size rapidly indicate a steep grade
- Canyon walls that appear to close in ahead of the bus indicate a
 possible narrow road ahead
- Do not blindly follow the traffic ahead of you other drivers may misinterpret terrain.

One of the hardest techniques to learn may be reading terrain. Maintain a safe scanning distance and scan the entire area for changes in grade, upcoming curves, wildlife, and traffic. When possible, look through the trees beyond the curve before entering.

Curves

Pitch and Grade

Pitch and grade affect how mountain drivers maneuver through curves. Long, wide curves in the mountains may remain slippery for continuous periods, due to the pitch of the road or position of the sun. During a downhill curve, the bus may accelerate on its own. Do not brake in a turn, especially during adverse conditions. Apply the retarder or service brake (depending on conditions) well in

advance of the curve and allow the speed of the bus to decrease gradually. Once the bus has reached the apex of the turn, gradually accelerate. This helps the bus track correctly through the lane. Braking through a turn may cause the bus to skid and make control difficult.

When approaching curves, notice how the road pitches from side to side in relation to the curve and the grade. Often, the operator can drive at a higher speed if the curve maintains a pitch that follows the direction of the turn (on-camber) than if the curve is flat or off-camber. The amount of acceleration out of the curve will depend on the degree of pitch. A skid can occur by accelerating too early when negotiating curves with a relatively flat pitch.

Speed

Slow to a safe speed before entering any curve. Braking in a curve is dangerous because it is easier to lock the wheels and cause a skid. Do not exceed the posted speed limit for the curve. Since the posted speed limit is for small vehicles, the bus speed should be 5-10 mph below the posted limit. To help maintain control, be in a gear that will allow slight acceleration through the curve. When entering a curve while going downhill, allow gravity to provide the slight acceleration.

Lane Position

Watching the lane position will help avoid head-on collisions. On tight curves, especially switchbacks, watch the tail swing. Stay centered in the lane to keep a safe clearance on all sides of the bus. Hugging the outside of a curve increases the chance of dropping a tire off the paved portion of the road onto a soft shoulder. Hugging the inside of a curve places your mirrors into the space of other motorists. If possible, adjust the speed and space to avoid driving alongside another vehicle in a curve on a multilane highway. On a right-hand curve, move as far to the outside of the lane as possible. It is essential to pay attention to where the right rear tires are in relation to the pavement. Oncoming traffic tends to take their half out of the middle when negotiating a left-hand curve.

Overhead

Be aware of rocks that overhang the road. Off-tracking brings the center of the bus closer to the overhanging objects. When entering a tunnel, be aware of the curve of the edges and top. The vehicle height may fit through the middle, but not on the outer edges.

Chains

Chaining is crucial to mountain driving in adverse weather. The Department of Transportation requires the use of chains on commercial motor vehicles on many mountain passes. The two most common types of chains are automatic and

conventional. There are several methods for installation. Below are some commonly used methods and tips for safely chaining a bus.

Automatic Chains

These chains permanently fasten to the rear suspension of the bus. They activate from a dashboard switch that opens an electric over air solenoid mounted on the frame rail. Air pressure from the buses on board air brake system or an auxiliary air source flows to two air cylinders that lower two chain wheels down until they contact the tire sidewall. The friction between the tire and the chain wheel causes the chain wheel to rotate. Each chain wheel has lengths of chain attached to it. The centrifugal force created causes the chains to flail out and pass between the tire and road surface to enhance traction in snow and ice. The additional traction also reduces stopping distance in these same slippery conditions. When in the "off" position, the solenoid exhausts the air in the cylinder, and the spring in the cylinder returns the chains to the retracted position.

Advantages:

- Increased safety as the bus is always equipped and has quick access on short notice. Typical engagement time is two seconds.
- Automatic chains dramatically reduce the time spent installing conventional chains, increasing productivity of the operator. More importantly, routes can remain on schedule.
- Automatic chains can eliminate body damage caused by broken conventional chains, which at times can be a mission disabling failure.
- Advantages in hauling force, acceleration and stopping distance are dramatic.

Disadvantages:

- The operator must realize that this system is not a "fix all" (avoid a false sense of security).
- Operator activation is required.
- The system, per design, is limited to ice and a maximum of up to four inches of snow. The operator may have to install conventional chains in deep snow conditions.
- The operator may lower or raise automatic chains at any time during speeds less than 30 mph. To avoid damage, do not raise the chains if the bus is not in motion. If the chains are raised when not in motion, damage can occur to the chains, arm mechanism, and air system.

Conventional Chains

The operator must install and remove conventional chains. Always plan ahead when chaining is a possibility. If there is any doubt about traction, it is best to chain up to avoid safety issues. When determining locations to install and remove conventional chains, always find a safe location that is out of the way of traffic. If passengers are on-board, they should remain inside of the bus. Make

sure the engine is off and the brake is set so the bus will not move.

Chaining Steps:

- Operator Preparation Stretch muscles before lifting chains.
- Lay chains out on the ground to confirm that the chains are lying correctly with each side parallel. If not, straighten them to assure that all reinforcement bars will face the road surface instead of gouging into tire.
- Choose the proper chaining method to use.
 - o Drape over the tire (Recommended in most circumstances).
 - Hooks on inside, clasps on outside, cross-links be perpendicular to tire and all reinforcement bars on crosslinks facing away from the tire.
 - Roll the bus over chains. Determine the optimal direction to roll (forward or backward) by assessing which direction has the most room. Avoid rolling over the hook and clasp end of the chain, if possible. If on a slope, always make sure the operator is on the upward side of the tire when fastening chains.
 - Place a mark at one side of the front passenger door and drive the bus with the front wheels straight until the opposite side of the entry door is lined up with the mark.
 - Fasten the chains. The inside hooks should be fastened first. Do not hook on the end link. The identical number of links on the inner hook and outside clasp is ideal to fasten the chains. Attach the stretchers/tighteners on the outside of the tire. Drive forward 50-100 yards, remove the stretchers, tighten the chains, and reattach the tighteners.
 - o In-place chaining (usually done if bus is unable to move).
 - Drape the chains over tire so that the cross-links at the bottom do not hinder the effort to fasten the inside hook to the chain link.
 - Use a chain tightener or coat hanger to guide the link between the dual tires to fasten the chain link with the inside hook.
 - Pull the chains as tight as possible. A good tip is to use your knee against the tire to spare using only your back. Fasten the chains with the outside clasp and attach the tighteners. When the bus is moving and out of danger, remove the tighteners, readjust the chains, fasten both the inside hook and outside clasp, and reattach the tighteners.

Remember that when the bus is empty, chain traction is limited. Never drive over 30 mph when chains are installed on the tires.

Removal Steps:

Remove conventional chains only when the road surface provides safe traction

without the use of chains.

- Find a safe area away from traffic and keep the students on the bus.
- Remove the tightener.
- Loosen the outer clasp.
- Unhook the inner hook first to prevent the chains from dropping between freezing wheels.
- Drive over the chains in a manner that prevents the tires from running over clasps or hooks.
- Stretch the chains out to check for broken or badly worn links. Bundle chains for storage.
- Place the tightener perpendicular to the cross-links and pull each individual link over the tightener while inspecting the condition of each link.
- Fasten the tightener at the ends and place in the desired storage area.

If there are any doubts about the condition of any part of the chains, take them to a mechanic or other repairperson for inspections and/or replacement.

Additional Tips:

- Carry additional tighteners in case of breakage.
- Inspect and install all chains in the fall to ensure proper condition and fit.
- Every element of a chain is a moving part. Check for broken chain links and verify the hooks and clasps are in good operating condition.
- Label all chains with paint to confirm they are the proper ones for that particular bus and add this check to the daily pre-trip inspection.
- If installation of new tires occurs on the bus, always check the chains for proper size.

https://www.codot.gov/travel/winter-driving/TractionLaw
https://www.codot.gov/travel/library/Brochures/ChainTips.pdf

CDOT Fact Sheet —Traction Law and Passenger Vehicle Chain Law Traction Law (Code 15)

- Use George's Head to Check Your Tread
- If weather conditions require, CDOT will implement a Traction Law.
- Under a Traction Law, motorists will need to have either snow tires, tires with the mud/snow (M+S) designation, or a four-wheel/all-wheel drive vehicle all tires must have a minimum one-eighth inch tread.

<u>Passenger Vehicle Chain Law (Code 16)</u> — Chain Up or Stay Off

- During severe winter storms, CDOT will implement a Passenger Vehicle Chain Law this is the final safety measure before the highway is closed.
- Under a Passenger Vehicle Chain Law, every vehicle on the roadway is required to have chains or an alternative traction device (like AutoSock).

Fines

- Motorists driving with inadequate equipment during a Traction Law or Passenger Vehicle Chain Law could be fined more than \$130.
- If a motorist blocks the roadway because they have inadequate equipment during a Traction Law or Passenger Vehicle Chain Law, they could be fined more than \$650.

Test Your Tread

Find out if your tires are safe for winter driving by doing the Quarter Test:

- Insert a quarter upside down into your tire tread, with Washington's head going
- in first.
- If the top of the head is covered by tread, you are good to go.
- If the top of his head is visible at any point around the tire (test multiple points), you cannot drive when a Traction Law is called — you also likely need new tires.

Traffic Facts

- At 60 MPH on snowy pavement, winter tires require 310 ft. to stop. All-season tires require more than double that (668 ft.).
- In 2014, one of the worst traffic delays on the I-70 Mountain Corridor was caused by unprepared motorists. Severe delays were caused by 22 vehicles spinning out and causing crashes 19 of those vehicles had worn tires.
- Traffic crashes not volume account for as much as 60 percent of all traffic delays.
- A crash that only takes 10 minutes to clear can delay traffic for an hour.

Statewide Tire Deals

- To help motorists prepare for winter driving, CDOT has partnered with tire companies across the state to offer discounts on new tires.
- To find a tire company with deals near you, visit winter.codot.gov/tires

Delineators

Delineator posts are green posts with colored reflectors. They are in high risk and informational areas of roadways to convey a variety of messages to motorists. Below are some specifics on delineators.

Delineator—a retro-reflective device mounted above the roadway surface and along the side of the roadway in a series to indicate the alignment of the roadway, especially at night or in adverse weather.

Type III

- 1) Three Amber Front Reflectors These are designed to warn the motorist of existing objects. These objects may not always be in the roadway but are close enough to the edge of the road, to be a potential hazard. Typically, they are near underpass piers, bridge abutments, guardrails, and culvert heads. If a guardrail approach end is not flared, there will be a Type III delineator immediately in advance of the approach end.
- 2) Two White Front and One Red Back Reflector These are designed to warn motorists of acceleration and deceleration lanes ahead. The red reflector is for warning motorists of the wrong way.
- 3) Two Amber Front and One Red Back Reflector These are normally installed in medians for left-turn deceleration lanes.
- 4) **One Blue and Two Yellow Front Reflectors** These are installed at crossover locations of divided highways.
- 5) Three Blue Front Reflectors These are for Department of Transportation maintenance crew workers. These are installed at the bridge joints.
- 6) Three Green Front Reflectors These are for Department of Transportation maintenance workers. These are installed in front of approaching guardrails with flare ends, not on bridges. They can be found in front of curb heads.
- 7) **Red Reflectors** Runaway truck ramps are bordered on each side by red reflectors spaced not more than 50 feet apart.

<u>Delineation Posts</u> - The white and amber reflectors on the green posts along the roadway are called cat eyes. The color and number of cat eyes on a post indicate a hazard or condition at the edge of the roadway.

| • | Edge of the road | single white |
|---|--|--------------|
| • | Right side of roadway | single white |
| • | Left side of roadway | single amber |
| • | On and off ramps | two white |
| • | Minor problem area | single amber |
| • | Moderate to serious problem area | two amber |
| • | Life-threatening problems | three amber |
| | (Culverts, bridges, guardrails, heavy crossroad traffic) | |

<u>Delineator panels</u> are a striped marker consisting of a vertical rectangle with alternating black and retro-reflective yellow stripes sloping downward at an angle of 45 degrees toward the side of the obstruction on which traffic is to pass. These types of delineators can be seen on the end of guard rails, on bridges, etc.

Emergency Stops

The braking systems on the bus are mechanical systems and can fail. The following emergency stopping procedures are to be demonstrated and practiced during on-the-road (hands-on) training. These simulations will prepare the

operator for cases in which any or all braking systems fail. Except where noted, use a road or highway with little or no traffic and with good visibility for the simulations.

Every Which Way Simulation

This simulation is to practice when there is a need to stop the bus when the service brakes fail to operate. The operator will experience the use of all available means to stop a bus. Shift down to the first gear of the automatic transmission, set the retarder to the fourth position, and pull the park brake. As the bus slows, the transmission will automatically downshift. In a standard transmission, the operator will downshift through the sequence as the engine speed slows.

Full Four-Wheel Lock Simulation

This simulation is to practice when the service brakes are functioning, and the engine is running. The operator will experience the forces involved in severe use of the brakes. The operator will get the feel of a bus skidding. At 25 mph, the driver will release their grip on the steering wheel and press hard on the brake pedal. Note any tendency of the bus to pull right or left. Make sure there is room on both sides of the lane for the bus to pull in either direction.

Park Brake Simulation

This simulation is to practice when the service brakes and retarder are inoperable with the speed too fast for downshifting to slow the bus. Depending on the service brake defect, the park brake may be inoperable or already set due to a loss of air pressure. Select a flat, straight portion of the road with a full-width shoulder lane where the bus can pull completely out of the travel lane. At highway speed, turn on the hazard lamps, let up on the accelerator, pull the park brake, and carefully pull the bus into the shoulder lane as it slows to a stop.

Ride-It-Out Simulation

This simulation is to practice when the retarder is inoperable or not present, the parking brake is broken and hot, the brakes are fading, and the engine is running. Simulate stopping a bus without the use of the brakes or retarder. Select a downgrade that will allow the bus transmission, when placed in the highest gear, to maintain the approximate posted speed limit. The downgrade should decrease for safe simulation of the procedure. At the top of the descent, let up on the accelerator, put the gear selector in first (if automatic), and ride out the descent. As the bus slows, the transmission will automatically downshift. In a standard transmission, the operator will downshift through the sequence as the engine and road speed slow. Turn on the hazard lamps at 25 mph and pull into the shoulder lane. At an idle in first gear, pull the right-side wheels into the soft shoulder dirt, shift the transmission into neutral, and allow the bus to stop.

Escape Ramps

To stop runaway vehicles safely without injuring operators or passengers, escape ramps are on many steep mountain grades. These ramps use a long bed of loose

soft material (pea gravel) to slow a runaway vehicle, sometimes in combination with an upgrade. The operator should know all escape ramp locations on any assigned route. Signs show operators where ramps are located. Escape ramps save lives and equipment. Use them if the bus has lost all forms of braking.

Destination Pre-Trip

Conduct a modified post-trip once at the destination. This will help discover any mechanical defects before leaving. Some very important items to check when in the mountains are:

- Retarder Operation Check this while driving. When in first position, check that brake lights activate. This will only occur when moving at 6 mph or higher in some newer models.
- Left and right turn signals.
- Headlights, brake lights, taillights, and clearance lights are all operational.
- Emergency door buzzer.
- Tires, lug nuts, tire chains, and exhaust system.
- Leaks under the bus.
- Perform a standard brake test.

Your district/charter/service provider may require other items. Follow district/charter/service provider procedures for checking any additional items.

Crashes

If faced with a head-on collision, it MAY be a better option because of the size and weight of the bus and the fact that the operator and passengers sit above the impact zone. Swerving may cause the bus to slide out of control and leave the roadway and/or cause the bus to rollover. However, if facing a head-on collision with a large truck, avoidance by steering out of the way into the oncoming lane MAY be the best option, even if you must take the right-of-way from a car.

Plan ahead as you drive. Look for spots to use as escape routes. Sideswiping hillsides, rocks, trees, or guardrails may be the best alternative to slow the bus in an emergency. Deer, elk, or other wildlife may suddenly appear in the roadway. The operator's choices are to swerve or hit the animal. The safer choice is to hit the animal rather than swerving and possibly losing control of the bus. Swerving will place your passengers in greater danger. It is natural to react by swerving, but knowledge of the possible consequences should override that decision.

Other Considerations

Motorists/Bicycles

Sightseeing motorists and/or tourists may drift to either side of the roadway. Many motorists are also uncomfortable driving on mountain roads. They may fear driving towards the outside of the lane and crowd the center of the road. Pay attention to other vehicles' tire to ground contact, which indicates their exact position in their lane. Be aware that motorists may park on mountain shoulders, around curves, and walk on the roadway.

More and more people are riding bicycles in the mountains. In most cases, they ride in the traffic lane. Bicycles, especially when ridden by children can be unpredictable. Give them plenty of room when passing.

- 42-4-1008.5, C.R.S. Crowding or threatening bicyclist. The driver of a motor vehicle shall not, in a careless and imprudent manner, drive the vehicle unnecessarily close to, toward, or near a bicyclist.
- Any person who violates subsection (1) of this section commits careless driving as described in 42-4-1402, C.R.S.
- Never outdrive your ability to stop in the distance you can see.

Passenger Well-Being

When planning a mountain trip and driving in the mountains, think about your passengers. When was the last break for them to stretch their legs? Take stretch breaks, as needed, in safe pullout areas.

Remember that many passengers suffer from motion or carsickness. Have these passengers sit up front with one or more windows open for fresh air. If known ahead of time, discuss other remedies with parents/guardians. Slowing down more in curves may help these individuals. The driver may feel comfortable with the speed on winding roads; however, they should watch the passengers in the rear of the bus to determine if they are comfortable as well.

Anyone can suffer from altitude sickness. Make sure they drink fluids and remain quiet (sitting or lying down) and get them to a lower altitude as soon as possible.

Driver Care

When driving long distances, note that operators may experience fatigue or minor aches and pains. Be sure before leaving to position the bus seat so the back is completely against the seat back with feet flat on the floor. Consider using a lumbar roll or rolled-up towel between the lower back and seat back. Adjust the seat up or down, so the hips are slightly higher than the knees. The back of the knees should not rest on the edge of the seat. Adjust the seat forward or back, so the knees are at a slight bend when fully pushing the pedals. Arms should comfortably reach the steering wheel and controls with minimal leaning or twisting.

Remember to adjust the mirrors to avoid twisting or placing the body in an uncomfortable or awkward position. To combat fatigue, perform stretches before and after driving.

Unit Eight - First Aid Information

<u>Per Colorado Rules for the Operation, Maintenance and Inspection of School Transportation Vehicles 1 CCR301-26 (Excerpts)</u>

- 5.01(j) The operator shall have written documentation evidencingthat they have received first aid training, including cardiopulmonary resuscitation and universal precautions within 90 calendar days after initial employment. If the operator holds a current first aid, cardiopulmonary resuscitation certificate it will meet the requirements of this section. Operators shall receive first aid training and/or re-certification every two (2) years thereafter.
- 5.02(i) The operator shall have written documentation evidencing that they have received first aid training, including cardiopulmonary resuscitation and universal precautions within 90 calendar days after initial employment. If the operator holds a current first aid, cardiopulmonary resuscitation certificate it will meet the requirements of this section. Operators shall receive first aid training and/or re-certification every two (2) years thereafter.
- 5.03(h) The operator shall be given and/or have access to first aid information, including cardiopulmonary resuscitation and universal precautions.

First aid is the immediate and temporary care given to the victim of an accident or sudden illness until medical services can be obtained.

- Ask a conscious victim if you may assist them.
- Use common sense and a reasonable level of skill, not to exceed the scope of the individual's training in emergency situations.

All drivers will, at some point, will find a need to administer first aid. The objective of first aid is to save life and prevent further injury. Therefore, it is necessary to know and understand the principles of basic first aid.

It is important that drivers understand what not to do as well as to know what to do.

This unit is designed to teach the fundamentals of first aid. Bus drivers should not administer any first aid beyond that in which they have been trained.

The most noticeable indicators of an emergency are abnormal sights, odors, noises, and personal appearances or behaviors. An emergency or serious illness may be difficult to recognize. When assessing if there is an emergency, often times, those who are injured the most will be the quietest. If you have any reason to suspect that something may be wrong, check the injured or ill person.

Common sense and a few simple rules are the keys to effective first aid. Some of the important ideas to remember when rendering first aid are:

- First aid is not a substitute for medical care. Call your dispatcher and/or your emergency services number (911) as soon as you identify a need for first aid care.
- o First aid procedures apply only to immediate temporary needs.
- o Only accepted first aid procedures should be used in all cases.
- Remaining calm. Children will react to your anxiety, which can make the situation worse. Reassure your victim that you can help.

Injuries to victims vary in severity. The individual in control must make sound decisions as to which victims need care first.

Good Samaritan Law

13-21-108. Persons rendering emergency assistance exempt from liability.

- (1) Any person licensed as a physician and surgeon under the laws of the state of Colorado, or any other person, who in good faith renders emergency care or emergency assistance to a person not presently his patient without compensation at the place of an emergency or accident, including a health care institution as defined in section 13-64-202 (3), shall not be liable for any civil damages for acts or omissions made in good faith as a result of the rendering of such emergency care or emergency assistance during the emergency, unless the acts or omissions were grossly negligent or willful and wanton. This section shall not apply to any person who renders such emergency care or emergency assistance to a patient he is otherwise obligated to cover.
- (2) Any person while acting as a volunteer member of a rescue unit, as defined in section 25-3.5-103 (11), C.R.S., notwithstanding the fact that such organization may recover actual costs incurred in the rendering of emergency care or assistance without compensation at the place of an emergency or accident shall not be liable for any civil damages for acts or omissions in good faith.
- (3) Any person, including a licensed physician, surgeon, or other medical personnel while acting as a volunteer member of a ski patrol or ski area rescue unit, notwithstanding the fact that such person may receive free skiing privileges or other benefits as the result of his volunteer status, who in good faith renders emergency care or assistance without other compensation at the place of an emergency or accident shall not be liable for any civil damages for acts or omissions in good faith.

Your First Aid Kit

It is important that drivers know where the first aid kit is located and what it contains. Before departing on any trip make sure you have found the location of your kit and that you have inspected it to ensure that it has the required contents. Then, if an emergency occurs, they will not waste valuable time looking for the first aid kit or looking for items they know are not in the kit.

<u> 2251-R-20.00 Emergency Equipment.</u>

Contents of the 24-unit First Aid Kit: Item Unit(s)

Adhesive Tape 1

1-inch adhesive bandage 2

2-inch bandage compress 1

3-inch bandage compress 1

4-inch bandage compress 1

3-inch x 3-inch plain gauze pads 1

Gauze roller bandage 2 inch wide 2

Plain absorbent gauze - ½ square yard 4

Plain absorbent gauze - 24-inch x 72 inch 3

Triangular bandages 4

Scissors, tweezers 1

Space rescue blanket 1

Non-latex disposable gloves, pair. 1

CPR mask or mouth-to-mouth airway 1

Moisture and dustproof kit of sufficient capacity to store the required items.

everyone should, unless they have been disabled, use first aid whenever it is apparent that death or severe and/or permanent injury to others may follow. No medication, however, should be administered without a physician's directive.

Blood Borne Pathogen Protection

Many people are afraid to act in an emergency. They may be concerned they may contract a disease from the injured party. Individuals administering first aid need to take some basic steps to protect themselves from blood borne pathogens (infectious disease, bacteria, or viruses) found in body fluids of others. Your employer is required to give you more detailed training in blood borne pathogen procedures.

Following basic guidelines can help reduce disease transmission when providing first aid:

- Be prepared by having a first aid kit handy and stocked with protective equipment and supplies such as disposable gloves and biohazard bags on the bus.
- Before providing care, use protective barriers, such as eye protection, nonlatex disposable gloves or a clean dry cloth, between the victim's body fluids and yourself.
- Cover any cuts, sores, scrapes and skin conditions you may have .
- o Avoiding contact with blood or body fluids when possible.
- o Do not eat, drink or touch your mouth, nose or eyes when giving first aid.
- o Do not touch objects that may be soiled with blood or body fluids.
- Dispose of any materials contaminated with blood or body fluids as directed by your employer's blood borne pathogenpolicy.
- Always wash your hands thoroughly with soap and warm running water when you are done giving first aid, even if you wore disposable gloves.
- Be prepared by having protective equipment

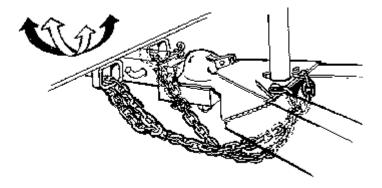
For more detailed information regarding First Aid Procedures contact your local School Nurse or visit the CDE School Nursing and Health website located at http://www.cde.state.co.us/healthandwellness/snh home

Unit Nine - Trailer Towing

Before you hitch any trailer to your car or truck, consult your owner's manual to find out the vehicle's maximum towing capacity. While larger, more powerful vehicles can tow more than smaller, less powerful ones, some subcompact cars, particularly front-drive versions, cannot tow at all. Typical family-size cars can usually tow 1,000 to 2,000 lbs. Large cars and light trucks are rated from 2,000 lbs. to nearly 10,000 lbs.

If you tow a trailer, you are subject to new and different challenges on the highway than you may have previously encountered. Towing a trailer is no small responsibility and should be undertaken with great care and an eye toward safety first. An accident with a tow vehicle and trailer can have much greater consequences than carelessness with a small car. Like an airline pilot who is responsible for expensive equipment and many lives, you should take your responsibilities as a tow vehicle driver very seriously and learn all you can about doing the job safely and well. Whether you tow a light boat or camping trailer behind your car, a vacation trailer behind a motorhome or a cargo trailer to haul a race car or move personal belongings, balancing the load and preparing the trailer and tow vehicle are critical to safe handling.

The Trailer Ball and Safety Chains

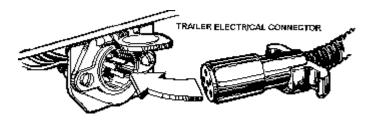


The ball should be located so the trailer sits level when connected to the tow vehicle. The vehicle should be able to accept this weight without a major change of attitude.

The ball should be lightly greased, so the hitch rotates smoothly on it. Safety chains should be long enough for tight turns and be crossed (right to left and left to right). This will help create a "saddle" if you have a tongue failure and will help maintain control while stopping. Do not allow these chains to drag on the pavement, because they can be ground to an unsafe condition in a very short amount of time. Always inspect the hitch and tongue for cracks when hooking up. Rust is your enemy and can cause premature failures. Check lights and brakes each time the trailer is hooked up. Try to do things in the same order each time and use a checklist. Do not forget to retract the jack. Do not ever hook a trailer up halfway or you may forget to finish the

job. Do not start if you cannot finish, and do not ever leave the receptor pin out for a minute.

Trailer Lighting and Connections



All your lights must work to be legal and safe. The weakest link is the connector. They corrode easily and need constant attention to keep the system working. (Be careful when cleaning connectors not to short them out.) The wiring to the connector should be carefully routed so that it cannot come apart in tight turns or chafe through and short out. Remember, electric brakes also run through this connector. Have an observer confirm your brake lights, blinkers and running lights are working properly each time you hook up.

Complete the rest of the daily pre-trip inspection as required by your district/charter and service provider. This will now include the key items on your trailer, such as: tires, wheels, lights, hitch, safety chain, emergency equipment. Also, verify that the annual inspection for both vehicles is current.

Recommended Hitch Weight Percentages

| TYPE OF TRAILER | PERCENT OF WT. ON TONGUE |
|-----------------|--------------------------|
| Single Axle | 10% minimum/15% maximum |
| Tandem Axle | 9% to 15% |
| Travel Trailer | 11% to 12% |
| 5th Wheel | 15% to 25% |

Placing the Load

It would be overly simplistic to say, "put the heavy items over the axles". Sometimes many little items can far outweigh one big one. The value of an item should be one of the first considerations of where it is put in a trailer. Arrange the load so that these items are protected by their location. Do not put big, heavy items in a place where they cannot be securely tied down. A glued down rug makes a great floor for a cargo trailer. Things stay put and do not slide around. Of course, it would be easy to say everything should be securely tied down, but it would be also unrealistic. Start with top-heavy items if you have them. That is usually a good place to start because you

must have plenty of room available to properly tie them down. Tying them straight down is not secure enough. They need to be tied off at several angles or they could fall over in an abrupt change in speed or direction. You need room to accomplish this. Smaller items can be used to fill the spaces around them later.

The smaller items can be loaded in such a way that they balance out the load. They should be located so that they will stay put. Placing them next to items that have already been tied down helps, but your main concern should be to not lose the balance of the trailer. Do not forget you can also get one side of a trailer a lot heavier than the other without a little planning. This can cause a very serious problem when cornering, even causing the trailer to turn over in a sudden turn.

Top-heavy loads can cause problems not only in cornering but also in hard braking. They tend to make the trailer "dive" in hard braking conditions. This suddenly increases tongue weight and can decrease front axle loading just when you need steering and those big front disc brakes the most. Center top-heavy items or arrange the remainder of the load to act as a counterweight to minimize this effect.



Top-heavy loads can cause trailer "dive" under hard braking, possibly reducing steering and braking control.

Never place heavy objects on add-on devices hung on the rear bumper or placed across the tongue frame. A bicycle may be fine to hang out in back, but not a motorcycle. This places heavy objects where they will dramatically affect handling in corners or bumps. Heavy weights placed well behind the axle can also aggravate swaying in turns.

The best advice is to use good common sense and to always allow plenty of margin for safety. The purpose behind this information and test is to give you the necessary information to make intelligent, informed decisions when loading. The ultimate responsibility for using that information correctly lies with you and you alone.

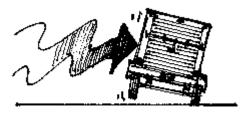
Your Responsibilities as a Driver

Towing a trailer has a responsibility like properly driving your car. You would not think of letting your children drive on the road without the proper training, and you should not take a fully loaded trailer that could be improperly loaded onto a busy

road to learn with. It is a skill that must be developed and a responsibility that should not be taken lightly. If you are towing a travel trailer for the first time, you must start learning with a full load. Drive only when traffic is light and do not drive where traffic conditions might force you into driving faster than you are comfortable with. Do not be embarrassed to ask questions or park when it is windy. Learn what it takes to keep from ruining your transmission when pulling heavy loads up a hill or burning your brakes up going down the other side. It is a skill that you can take pride in. The hardest skill to learn is to know when not to tow a trailer.

Travel trailers, boat trailers, and specialty trailers are usually designed to have the proper hitch weight, but it would be intelligent to check them. Make sure your hitch can handle the load. You can still screw up the design by putting something heavy where it was never intended to go. Another way of getting in trouble with a boat is towing it when it has a lot of water in the bilge from a rainstorm. If you add heavy items to this type of trailer, put the extra weight over the axles.

Driving in Windy Conditions

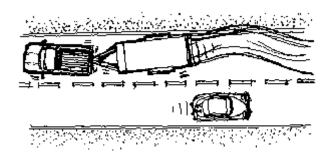


Wind can create havoc when towing a trailer, causing oscillations or sudden pulling to one side. A thirty mile an hour crosswind can blow you off the road if there is a sudden gust. For example, say a hard gust of wind hits your rig from the left. Your rig pitches to the right and moves towards right. In order to stay on the road, you turn left. With the rig leaning to the right, the centrifugal force generated by the left turn can be the added ingredient that puts you on your side, or worse yet, down the side of a ravine. The only way to help lower the risk traveling in these conditions is to slow down. This eliminates the centrifugal force that happens when you correct, and if the wind did blow you over it would not be such a violent crash. The safest way is not to drive in extremely windy conditions. That is what the professional haulers do, and so should you. Park it until it is safe to continue. Wind can also have a dramatic effect on your fuel mileage when towing a heavy load. Plan your fuel stops accordingly.

NOTE: Several types of trailer sway control braces are available that can minimize the effects of wind gusts and passing trucks.

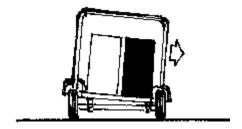
Wind from Passing Trucks

An interesting thing happens when being passed by faster moving buses or large trucks. Large vehicles develop a high-pressure wave of air in front of them and low- pressure area to their rear as they go down the highway. This is variable and is dependent on the shape of the truck and the existing wind conditions. The effect is such that as the truck comes up to pass on your left, first your trailer and then your tow vehicle will be pushed to your right by the truck's "bow wave". As the truck passes, the low-pressure zone will then pull you back to the left. You must steer first left and then right to counter the effect. It is not particularly dangerous, but it does keep you on your toes.



Handling Trailer Sway

If swaying occurs, steer as little as possible while you slow down. Because of your natural lag in reaction time, quick steering movements will make things worse and cause the oscillation to increase. Application of the trailer brake usually tends to help keep the vehicles aligned, while heavy braking with the tow vehicle may reduce trailer stability. Until the problem is identified and solved, travel at reduced speeds.

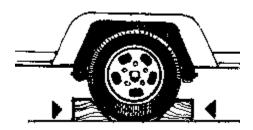


Heavy items loaded to one side of the trailer can cause oscillation or handling problems in turns.

The longer the trailer, the wider you must swing in a turn to make sure the trailer wheels clear the inside curb.

Something to Think About

A temporary increase in loading occurs during dips or bumps in the road. A severe dip causes increased weight to suddenly be placed on hitch, axles and tires. Though hitch manufacturers take this into consideration in their designs, an overloaded or old, cracked and rusted hitch or tongue can be suddenly stressed beyond capacity, causing it to fail. Watch for bumps and large dips in the road and try to slow down for them. A conservative safety margin in loading will also be helpful in this type of unforeseen circumstance.



Whenever the trailer is detached from the tow vehicle, block the wheels so it is impossible for the trailer to roll off on its own.

Better yet, do not ever detach the trailer on any grade.

Accelerating

The added weight of your trailer and cargo will cause the engine to work harder when accelerating. Allow your vehicle to gradually reach a comfortable driving speed.

Backing

It is always helpful to have a spotter outside your vehicle to guide you when backing up. Make certain you can always see your spotter in your side mirrors. Then place one hand at the six o'clock position on the steering wheel and back up slowly, turning the wheel to the left to make the trailer move left. Turn the wheel to the right to make the trailer move right.

Braking

Use firm and steady pressure on the brake pedal. "Slamming" the brakes can cause the trailer to jackknife.

Cornering

The turning radius of a trailer is usually smaller than that of the towing vehicle. When turning, drive your vehicle slightly past the normal turning point and then begin your turn. Cornering at a wider angle will allow both your vehicle and the trailer to make the turn.

Driving on Steep Grades

To avoid straining brake and engine components, reduce your speed and shift the transmission into a lower gear before going down a steep grade. When driving up a long, steep grade, shift to a lower gear to maintain speed and avoid lugging (the sluggish stuttering of your vehicle's engine when it needs to be shifted to a lower gear). Also, watch your engine temperature gauge for any signs of overheating.

Parking

In selecting a parking spot, allow yourself a lot of room to maneuver. Always block the wheels on both the trailer and your vehicle after you park. Parking on inclines is not recommended.

Passing

Passing is not recommended when you are towing a trailer. If you must pass, allow yourself additional time and distance to safely pass the other vehicle. Signal your intention to pass well in advance and make certain your trailer is clear of the vehicle you have passed before you reenter the lane.

The Driver

Apart from adding to the driver's legal responsibilities, towing requires a greater degree of knowledge and skill than normal driving. When towing, you should:

- o allow for the extra length and width of the trailer when entering traffic.
- apply the accelerator, brakes and steering smoothly and gently to avoid sway, especially in wet or slippery conditions.
- maintain a space of at least 4 seconds between you and the vehicle in front to allow for a longer stopping distance.
- engage a lower gear in both manual and automatic vehicles to increase vehicle control and reduce brake strain when travelling downhill.
- allow more time and a greater distance in which to overtake. When towing, your vehicle's capacity to accelerate is reduced.
- o if possible, reverse with a person watching the rear of the trailer.
- where areas are provided, pull off the road to allow traffic building up behind you to overtake.
- be aware that towing is more stressful than normal driving and is more likely to cause fatigue. Therefore, more rest stops should be planned.
- Always reduce your normal driving speed when towing. On curves or entrance and exit ramps, reduce your speed to 5 mph below the posted speed.
- Be alert and wear your seatbelt.

Colorado Rules for the Operation, Maintenance and Inspection of School Transportation Vehicles 1 CCR 301-26 (Excerpts)

4204-R-5.00 School Transportation Vehicle Operator Requirements

- 5.03 School transportation vehicle operators, other than route operators, driving vehicles with the capacity of 15 or fewer passengers (counting the driver), including Type A Multifunction Bus and Small Vehicle, shall meet or exceed the following requirements:
 - 5.03(a) The operator shall possess a valid driver's license.
 - 5.03(b) The operator shall be a minimum of 18 years of age.
 - 5.03(c) The district or service provider shall obtain a motor vehicle record of each operator prior to transporting students and annually thereafter.
 - 5.03(d) The operator shall be given and/or have access to the CDE Type A Multifunction Bus /Small Vehicle Operator Guide prior to transporting students.
 - 5.03(e) The operator shall successfully pass a Type A CDE Multifunction Bus/Small Vehicle Operator written test for the current school year prior to transporting students and annually thereafter.
 - 5.03(f) The operator shall annually complete the CDE Multifunction/Small Vehicle Operators Medical Information Form (STU-17). Any yes annotations shall require a doctor's release.
 - 5.03(g) The operator shall receive pre-service training on the type of vehicle(s) to be driven, the type of duties they may be required to perform and in student confidentiality requirements prior to transporting students.
 - 5.03(h) The operator shall be given and/or have access to first aid information, including cardiopulmonary resuscitation and universal precautions.
 - 5.03(i) The operator shall successfully pass a driving performance test including a pre-trip inspection prior to transporting students. This test shall be conducted in a vehicle, which is similar in type and size to the vehicle the applicant is assigned to operate. Districts have the option toretest in subsequent years at their discretion.
 - 5.03(j) Prior to driving a school transportation vehicle pursuant to 1 CCR 301-26-R-12.11, operators shall receive training on towing a trailer.

4204-R-14.00 Safety Restraints

- 14.1 A school transportation vehicle operator shall have the safety belt fastened, worn correctly and properly adjusted prior to the school transportation vehicle being placed in motion.
- 14.2 All passengers in a school transportation vehicle under 10,000 lbs. GVWR shall have their safety belts fastened, worn correctly and properly adjusted prior to the school transportation vehicle being placed in motion.

CRS. Title 42 - Vehicles and Traffic

(105) "Trailer" means any wheeled vehicle, without motive power, which is designed to be drawn by a motor vehicle and to carry its cargo load wholly upon its own structure and that is generally and commonly used to carry and transport property over the public highways. The term includes, but is not limited to, multipurpose trailers as defined in subsection (60.3) of this section.

42-4-502. Width of vehicles

- (1) The total outside width of any vehicle or the load thereon shall not exceed eight feet six inches, except as otherwise provided in this section.
- (2) (a) A load of loose hay, including loosely bound, round bales, whether horse drawn or by motor, shall not exceed twelve feet in width. (b) A vehicle and trailer may transport a load of rectangular hay bales if such vehicle and load do not exceed ten feet six inches inwidth.
- (3) It is unlawful for any person to operate a vehicle or a motor vehicle which has attached thereto in any manner any chain, rope, wire, or other equipment which drags, swings, or projects in any manner so as to endanger the person or property of another.
- (4) The total outside width of buses and coaches used for the transportation of passengers shall not exceed eight feet six inches.
- (5) (a) The total outside width of vehicles as included in this section shall not be construed so as to prohibit the projection beyond such width of clearance lights, rearview mirrors, or other accessories required by federal, state, or city laws or regulations. (b) The width requirements imposed by subsection (1) of this section shall not include appurtenances on recreational vehicles, including but not limited to motor homes, travel trailers, fifth wheel trailers, camping trailers, recreational park trailers, multipurpose trailers, and truck campers, all as defined in section 24-32-902, C.R.S., so long as such recreational vehicle, including such appurtenances, does not exceed a total

outside width of nine feet six inches.

(6)Any person who violates any provision of this section commits a class B traffic infraction.

42-4-506. Trailers and towed vehicles

- (1) When one vehicle is towing another, the drawbar or other connection shall be of sufficient strength to pull all weight towed Colorado Revised Statutes 2013 402 Title 42 thereby, and said drawbar or other connection shall not exceed fifteen feet from one vehicle to the other, except the connection between any two vehicles transporting poles, pipe, machinery, or other objects of a
 - a. structural nature which cannot readily be dismembered and except connections between
 - b. vehicles in which the combined lengths of the vehicles and the connection does not exceed an overall length of fifty-five feet and the connection is of rigid construction included as part of the structural design of the towed vehicle.
- (2) When one vehicle is towing another and the connection consists of a chain, rope, or cable, there shall be displayed upon such connection a white flag or cloth not less than twelve inches square.
- (3) Whenever one vehicle is towing another, in addition to the drawbar or other connection, except a fifth wheel connection meeting the requirements of the department of transportation, safety chains or cables arranged in such a way that it will be impossible for the vehicle being towed to break loose from the vehicle towing in the event the drawbar or other connection were to be broken, loosened, or otherwise damaged shall be used. This subsection (3) shall apply to all motor vehicles, to all trailers, except semitrailers connected by a proper fifth wheel, and to any dolly used to convert a semitrailer to a full trailer.
- (4) Any person who violates any provision of this section commits a class B traffic infraction.

42-4-1405. Riding in trailers.

No person shall occupy a trailer while it is being moved upon a public highway. Any person who violates any provision of this section commits a class B traffic infraction.

Unit Ten - Loading and Unloading

<u>1 CCR 301-26, 4204-R-5.00 School Transportation Vehicle Operator Requirements</u>

- 5.02 School transportation vehicle route operators (transportingstudents to and from school or from school to school) driving vehicles with the capacity of 15 or fewer passengers (counting the driver), including Type A Multifunction Bus and Small Vehicle, shall meet or exceed the following requirements:
 - 5.02(a) The operator shall possess a valid driver's license.
 - 5.02(b) The operator shall be a minimum of 18 years of age.
 - 5.02(c) The operator shall have a current physical examination (not to exceed two years) consistent with the requirements of 49 CFR 391.43.
 - 5.02(d) The district or service provider shall obtain a motor vehicle record of each operator prior to transporting students and annually thereafter.
 - 5.02(e) The operator shall be given and/or have access to the CDE Type A Multifunction Bus /Small Vehicle Route Driver Guide prior to transporting students.
 - 5.02(f) The operator shall receive a minimum of six hours of in-service training annually which may include required training in 1 CCR 301-26-R-5.00. A portion of this annual in-service requirement may occur during the school year.
 - 5.02(g) The operator shall successfully pass a CDE Type A Multifunction Bus/Small Vehicle Route Operator written test for the current school year prior to transporting students and annually thereafter.
 - 5.02(h) The operator shall successfully pass a driving performance test including a pre-trip inspection prior to transporting students and annually thereafter. This test shall be conducted in a vehicle, which is similar in type and size to the vehicle the applicant is assigned to operate. Districts have the option to re-test at their discretion.
 - 5.02(i)The operator shall receive pre-service training on the type of vehicle(s) to be driven, the type of duties they may be required to perform and in student confidentiality requirements prior to transporting students.

5.02(j) The operator shall have written documentation evidencing that they have received first aid training, including cardiopulmonary resuscitation and universal precautions within 90 calendar days after initial employment. If the operator holds a current first aid, cardiopulmonary resuscitation certificate it will meet the requirements of this section. Operators shall receive first aid training and/or re-certification every two (2) years thereafter.

5.02(k) The operator shall receive training regarding the proper use and maintenance of Child Safety Restraint Systems (CSRS) and proper wheelchair securement, when the operator is engaged in transportation involving these systems and devices prior to transporting students.

1 CCR 301-26, 4204-R-17.00 Route Planning - Student Loading and Discharge

- 17.1 School transportation small vehicles, Type A Multifunction Buses with 15 or fewer passenger capacity (counting the driver) and School Buses (Types A, B, C, and D) may be used to transport students to and from school. Multifunction Buses Type B, C and D and Motor Coach Buses shall not be used to transport students to and from school.
- 17.2 The location of student stops shall consider factors including:
 - 17.02(a) Ages of the students.
 - 17.02(b) Visibility.
 - 17.02(c) Lateral clearance.
 - 17.02(d) Student access.
 - 17.02(e) Control of other motorists.
 - 17.02(e) (1) Student stops for Type A Multifunction
 Buses with 15 or fewer passenger capacity
 (counting the driver) and school
 transportation small vehicles should be
 located off of the roadway whenever
 possible.
- 17.3 School transportation vehicle operators shall stop at least 10 feet away from students at each designated stop. The school transportation vehicle operator shall apply the parking brake and shift the vehicle into neutral or park prior to opening the service door of a bus or passenger door(s) of a small vehicle.
- 17.4 The school transportation vehicle operator shall stop as far to the right of the roadway, highway or private road as possible before discharging or loading passengers, allowing sufficient area to the right and front of the vehicle but close

enough to the right to prevent traffic from passing on the right so students may clear the vehicle safely while in sight of the operator.

- 17.04(a) Exception: The school transportation vehicle operator may block the lane of traffic when passengers being received or discharged are required to cross the roadway.
- 17.5 Student stops shall not be located on the side of any major thoroughfare whenever access to the destination of the passenger is possible by the use of a road or street which is adjacent to the major thoroughfare.
- 17.6 If students are required to cross a roadway, highway or private road on which a student stop is being performed, they are prohibited from crossing a roadway, highway or private road constructed or designed to permit three or more separate lanes of vehicular traffic in either direction or with a median separating multiple lanes of traffic. This does not include crossing the roadway, highway or private road with the assistance of a traffic controls signal or with the assistance of a crossing guard.
- 17.7 Four-way hazard lamps shall be used on private property such as parking lots.
- 17.8 Alternating flashing red warning signal lamps shall not be activated within 200 feet of an intersection if the intersection is controlled by a traffic control signal.
- 17.9 Routes shall be planned as to:
 - 17.09(a) Eliminate, when practical, railroad crossings.
 - 17.09(b) Have stops be a minimum of 200 feet apart since alternating flashing amber warning signal lamps must be activated a minimum of 200 feet in advance of the stop on the roadway on which the bus stop will be performed.
 - 17.09(b) (1) Exception: Student stops located in areas where wildlife may create a high risk of threat to students' safety while they are waiting and/or walking to a student stop, may designate student stops less than 200 feet apart upon detailed written approval by the school district board of education or governing body of a charter school and/or their designee. A copy of the written approval shall be kept in the school transportation office and route operators shall be given written notice of the exception and have it indicated on route sheets.
- 17.10 In determining the length of routes, districts, charter schools and service providers make an effort to minimize student ride times while considering

student educational needs and the geographic boundaries, terrain, traffic congestion, and financial resources within the district. Local boards of education or the governing body of a charter school may establish a maximum student ride time.

- 17.11 Pursuant to Section 42-4-1903(2), C.R.S., school transportation vehicle operators are not required to actuate the alternating flashing red warning signal lamps on a school bus when the student stop is at a location where the local traffic regulatory authority has by prior written designation declared such actuation unnecessary and when discharging or loading passengers who require the assistance of a lift device and no passenger is required to cross the roadway. Further, Type A Multifunction Buses with 15 or fewer passenger capacity (counting the driver) and school transportation small vehicles do not have the functionality to control traffic. In these instances, the school transportation vehicle operator shall stop as far to the right off the roadway as possible to reduce obstruction to traffic, activate the four-way hazard warning lamps a minimum of 200 feet prior to the student stop, continue to display the four-way hazard warning lamps until the process of discharging or loading passengers has been completed, and deactivate the four-way hazard lamps before resuming motion. Students are prohibited from crossing any lanes of traffic to access the student stop or after disembarking.
- 17.12 School transportation vehicle operators shall not relocate a student stop without approval of the school district or service provider.
- 17.13 School transportation vehicle operators of School Buses, Multifunction Buses and Motor Coach Buses, whether transporting students or not, shall apply the following procedures during the process of approaching, stopping and crossing railroad tracks:
 - 17.13(a) Activate the four-way hazard lamps not less than 200 feet from the railroad crossing to alert other motorists of the pending stop for the crossing.
 - 17.13(b) Stop the bus within 50 feet but not less than 15 feet from the nearest rail.
 - 17.13(c) When stopped, the bus should be as far to the right of the roadway as possible and should not form two lanes of traffic unless the highway is marked for four or more lanes of traffic.
 - 17.13(d) Use a prearranged signal to alert students to the need for quiet aboard the bus when approaching railroad tracks. Turn off all noise making equipment (fans, heater, radio, etc.)
- 17.14 After quietness aboard the stopped bus has been achieved, bus operators

shall open the service door and operator window. The bus operator shall listen and look in both directions along the track(s) for any approaching train(s) and for signals indicating the approach of a train.

- 17.14(a) If the tracks are clear, the bus operator shall close the service door and may then proceed in a gear low enough to permit crossing the tracks without having to manually shift gears. The bus operator shall cancel the four-way hazard lamps after the bus has cleared the tracks.
- 17.14(b) When two or more tracks are to be crossed, the bus operator shall not stop a second time unless the bus is completely clear of the first crossing and has at least 15 feet clearance in front and at least 15 feet clearance to the rear.
- 17.14(c) Before crossing the tracks, the bus operator shall verify that there is enough space after the tracks for the bus plus 15 feet if it is necessary to stop after crossing the tracks.
- 17.15 School transportation vehicle operators of School Buses, Multifunction Buses and Motor Coach Buses are not required to stop at crossings only controlled by a red, amber, green traffic control signal when it is in the green position or when the crossing is controlled by a police officer or human flag person, or when the crossing is marked with an official "exempt" sign placed on the railroad crossing light post or cross bucks post.

<u>Section 42-4-1903</u>

School buses - stops-signs-passing

- (1) (a) The driver of a motor vehicle upon any highway, road, or street, upon meeting or overtaking from either direction any school bus that has stopped, shall stop the vehicle at least twenty feet before reaching the school bus if visual signal lights as specified in subsection (2) of this section have been actuated on the school bus. The driver shall not proceed until the visual signal lights are no longer being actuated. The driver of a motor vehicle shall stop when a school bus that is Not required to be equipped with visual signal lights by subsection (2) of this section stops to receive or discharge schoolchildren.
 - (b) (I) A driver of any school bus who observes a violation of paragraph (a) of this subsection (1) shall notify the driver's school district transportation dispatcher. The school bus driver shall provide the school district transportation dispatcher with the color, basic description, and license plate number of the vehicle involved in the violation, information pertaining to the identity of the alleged violator, and the time and the approximate location at which the violation occurred. Any school district transportation dispatcher

who has received information by a school bus driver concerning a violation of paragraph (a) of this subsection (1) shall provide such information to the appropriate law enforcement agency or agencies.

(II) A law enforcement agency may issue a citation on the basis of the information supplied to it pursuant to subparagraph (I) of this paragraph (b) to the driver of the vehicle involved in the violation.

Awareness reminds you that children are apt to do the craziest things at the worst possible times.

Loading and Unloading Procedures

The loading and unloading of passengers present the driver with tremendous responsibilities and requires the use of sound judgment. The driver must execute the proper procedures for interacting with other vehicular traffic, in managing pupils who are loading and unloading from the bus.

This unit deals with the proper use of hazard warning lights as well as the procedures for safe loading and unloading of passengers. Learning and using these procedures will assist the driver in safely transporting their passengers to and from school. This is the point where students and drivers are exposed to many hazards. Ignoring these procedures could result in serious injury or death to one or more of their passengers or other highway users.

When loading and unloading

- Never take your eyes off what is happening outside the bus.
- Count children as theyenter/exit.
- Make sure you know the location of each student and make sure they are a safe distance from the bus before pulling away once you unload at the bus stop.
- If you cannot locate a child, check your mirrors. DO NOTMOVE!!
- o If you still cannot find the child, secure the bus.
- Check around and under yourvehicle.
- o DO NOT Move until you have located thechild.

Loading Steps

There is a safe technique in making stops that protect all involved. These steps should be practiced in the same sequence, so they become habit.

Check mirrors and traffic.

Students will be loading soon, and we must scan the traffic scene to locate students and traffic hazards. A mistake here could be tragic!

1) Apply brakes lightly and slowdown.

As you approach the bus stop, you must have your bus under control. Slowing down gradually will give you the control you need in case someone runs out in front of your bus.

2) Do not pull closer than 10 feet to waitingpupils.

Stop short of the line of waiting students for their safety. You must teach your students to stay back 10 feet from the bus and wait for your signal to board the bus. In winter weather your bus could also slide during the stopping procedure. Train your students well for their survival.

3) Stop the bus as far to the right off the roadway or private road as practicable.

It is important to consider a safe bus stop where pupils will wait for the school bus.

4) Apply the parking brake, shift the bus to park or neutral.

It is possible that your foot could slip off the brake and the bus could move.

Place your bus in neutral or park and set the parking brake at every student stop.

5) Check mirrors and traffic.

Check to see what the traffic around your bus is doing before you open your door.

Have students enter or leave the bus in an orderly manner. Be sure all students are accounted for. COUNT THEM AND TRACK THEM!! This is the most dangerous step in our loading and unloading procedure. You must account for every student.

More than half of all school bus rider fatalities are pupils struck by the bus, which they were entering or leaving.

Drivers are responsible for the safety of all their pupils. Instruct pupils in safe use of the handrail. Count the students as they get off the bus and count them again as they move away from the bus.

Procedure for students:

- Use handrails when boarding vehicle.
- Students should go directly to their seats as prescribed by the district/charter and service provider.
- Remain seated when the bus is moving.
- Do not permit students to go to the mailbox when the bus is conducting the bus stop. They must wait until the bus has departed the bus stop and preferably out of sight before they check for traffic and proceed to their mailbox. The concern is that students will attempt to get their mail assuming that traffic will remain stopped and do not take the proper precautions for safely crossing the road.
- 6) Check to see that students are seated and close the door.
 Students may fall if you start up before they are seated. Do not rush the seating procedure. Remember that small children may take considerable time to enter the bus and climbing the steps is a major event. Help them if you can!
- 7) Allow traffic to clear.

If it is possible, you must allow stopped traffic to clear. Failure to allow traffic to clear may result in a motorist trying to pass unsafely.

<u>Section 42-4-1903 (5)</u> The driver of a school bus that has stopped shall allow time for any vehicles that have stopped behind the school bus to pass the school bus, if such passing is legally permissible where the school bus is stopped, after the visual signal lights, if any, are no longer being displayed or actuated and after all children who have embarked or disembarked from the bus are safe from traffic.

Do not impede the regular flow of traffic. If a build-up occurs behind you, display professional courtesy.

8) Check mirrors and traffic.

Your stop procedure is almost complete, and you must move back into traffic.

9) Enter the traffic lane.

Everything looks good and it is time to get back on the road. A second look in the mirrors may help to avoid a collision.

Report Route Hazards

If, during the process of performing your route, you notice something that has become a hazard follow district/charter and service provider procedures for reporting such incidents. This could be a snowbank that is too high to see over,

tree in the road, construction, etc.

These hazards and the corrective action may need to be listed on the route description for the substitute driver. Review the district/charter and service provider procedure on reporting route hazards and how to determine when a change is warranted. The driver shall never change a stop without following district/charter and service provider procedures.

NEVER, NEVER change a bus stop location without following district/charter and service provider procedures.

Storage of Large and Oversized Equipment

The equipment must be stored or secured to reduce the danger to a minimum, in case of an emergency stop or an accident. The driver must make a reasonable and prudent determination that all carry-on items are properly handled in order to minimize the danger to all others.

Store band instruments and other large items in the storage compartment under the bus, if so equipped. If there is no under storage area, make sure the items are stored and secured away from the front and rear doors, are not stacked above seat back height and are out of the aisle.

Other options may include equipment truck, cargo van, or a second bus as an equipment bus.

DO NOT EVER BLOCK THE EMERGENCY DOOR(S) OR WINDOWS.

Unit 11 - Addendum

- Acknowledgement of Receipt and Understanding of Colorado Department of Education Type A Multifunction Bus/Small Vehicle ROUTE Operator Guide 2021
- 2. STU 8
 School Transportation Vehicle (Small Vehicle) Pre-Trip and Post Trip Requirements
- 3. STU -9
 School Transportation Vehicle (School Bus) Pre-Trip and Post Trip Requirements
- 4. STU-17
 Multifunction/Small Vehicle Operators Medical Information Form 2021
- 5. Colorado Rules for the Operation, Maintenance and Inspection of School Transportation Vehicles 1 CCR301-26
- 6. License and Training Matrix 2021

Certification of Receipt and Understanding

| l, | (Please Print) certify that I have been given |
|-------------------------------------|---|
| | o Department of Education Type A, Multifunction |
| and Small Vehicle Route/Activity O |)perator Guide 2021. |
| - | nd understand the <u>Colorado Rules for the</u> ction of School Transportation Vehicles 1 CCR 301- |
| <u>26.</u> | |
| • | pursuant to these rules, to operate a school Rules set forth in 1 CCR 301-26 and the laws of the my job responsibilities. |
| documentation required per the Sc | receive training and provide all the chool Transportation Vehicle Operator 01-26, 4204-R-5.00 that are applicable to my job |
| Driver Signature | Date |
| School District/charter and service | provider |
| Trainer(s) Name | (Please Print) |
| Trainer(s) Signature | |

ALL ITEMS ON THIS CHECKLIST ARE MANDATORY.

USE OF THIS SPECIFIC CHECKLIST IS **NOT MANDATORY**.

"Per 1 CCR 301-26, 4204-R-8.03 The pre-trip and post-trip inspection requirements for small vehicles, shall include at a minimum all items listed on the CDE School Transportation Vehicle (Small Vehicle)

Pre-Trip and Post Trip Requirements (STU-8) Form."

| Front of Vehicle | Rear of Vehicle | In Cab - continued | Post-Trip | | |
|----------------------|---------------------------|--------------------|--------------------------|--|--|
| Light Lens Condition | Light Lens Condition | Service Brake | Student Check | | |
| Engine Compartment | Doors | Dome Lights | Walk Around | | |
| Oil Level | Tailpipe/Muffler | Emergency Kit | Articles left on the Bus | | |
| Coolant Level | In Cab | Body Fluid Kit | Open windows/doors | | |
| Power Steering Fluid | Safety Belt | Communications | Damage Vandalism | | |
| Fan Belt(s) | Triangles | Seat Belt Cutter | Mechanical Problems | | |
| | ABS | | Operational Problems | | |
| | Temperature Gauge | | | | |
| Tire | Oil Pressure Gauge | | | | |
| Inflation | Voltmeter Gauge | | | | |
| Condition | Left Turn Signal | | | | |
| Depth | Right Turn Signal | | | | |
| Exterior Lights | Hazard Lights | | | | |
| Hazard | Headlights | | | | |
| Turn Signals | High Beams | | | | |
| Brake | Horn | | | | |
| Reverse lights | Heater(s) | | | | |
| Driver/Fuel Area | Defroster | | | | |
| Door | Mirrors | | | | |
| Mirror | Windshield | | | | |
| Fuel Tank | Wipers | | | | |
| Fuel Leaks | Washers | | | | |
| Fuel Cap | Parking Brake | | | | |
| Trailer | | | | | |
| Tire | Other Equipment | Load | Post-Trip | | |
| Inflation | Hitch/Receiver | Load Securement | Walk Around | | |
| Condition | Coupler | Load Distribution | Damage Vandalism | | |
| Depth | Draw Bar | Brakes | Mechanical Problems | | |
| Exterior Lights | Electrical Plug and Cable | Controller | | | |
| Clearance | Jack/Tongue Support | Break-away | | | |
| Hazard | Safety Chains | Wheels | | | |
| Turn Signals | Mirror Extensions | Lug Nuts | | | |
| Brake | | Axle Hub Oil Seal | | | |

ALL ITEMS ON THIS CHECKLIST ARE MANDATORY.

USE OF THIS SPECIFIC CHECKLIST IS **NOT MANDATORY**.

"Per 1 CCR 301-26, 4204-R-8.02 The pre-trip and post-trip inspection requirements for school transportation vehicles, other than small vehicles, shall include at a minimum all items listed on the CDE School Transportation Vehicle (School Bus) Pre-Trip and Post Trip Requirements (STU-9) Form."

| Front of Vehicle | Side of Vehicle | In Cab | Passenger Items |
|-----------------------|--|------------------------|--------------------------|
| Light Lens Condition | Light Lens Condition | Safety Belt | Steps |
| Engine Compartment | Reflectors | Fire Extinguisher | Handrail |
| Oil Level | Driver/Fuel Area | Electrical Fuses | Step Light |
| Coolant Level | Door | Triangles | Lift |
| Power Steering Fluid | Mirror | Safe Start | Seating Secured |
| Water Pump | Fuel Tank | ABS | |
| Belt or Gear | Fuel Leaks | Temperature Gauge | Post-Trip |
| Alternator | Fuel Cap | Oil Pressure Gauge | Student Check |
| Belt or Gear | Under Vehicle | Voltmeter Gauge | Walk Around |
| Air Compressor | Drive Shaft | Air Gauge | Articles left on the Bus |
| Belt or Gear | Exhaust System | Left Turn Signal | Open windows/doors |
| Leaks | Frame | Right Turn Signal | Damage Vandalism |
| Hoses | Suspension | Hazard Lights | Mechanical Problems |
| Steering | Springs | Headlights | Operational Problems |
| Box | Spring Mount(s) | High Beams | |
| Hoses | Shock(s) | Horn | |
| Pitman Arm | U-Bolts | Heater(s) | |
| Drag Link | Air Bag | Defroster | |
| Front/Rear Brakes | Air Bag Mount | Mirrors | |
| Slack Adjustor | Wheels | Windshield | |
| Brake Chamber | Rim | Wipers | |
| Brake Hose or Line | Lug Nuts | Washers | |
| Drum or Disk | Axle Hub Oil Seal | Parking Brake | |
| Linings or Pads | Spacers | Service Brake | |
| Tires | Rear of Vehicle | Dome Lights | |
| Inflation | Light Lens Condition | Emergency Door Alarm | |
| Condition | Reflectors | Emergency Window Alarm | |
| Depth | Splash Guard | Emergency Kit | |
| Exterior Lights | Emergency Door | Body Fluid Kit | |
| Clearance | Air Brake Check | Seat Belt Cutter | |
| Hazard | *1 Compressor | Student Mirror | |
| Turn Signals | *2 System Leaks | Communications | |
| Overhead Amber | *3 Low Air Warning | | |
| Overhead Red | *4 Valve Set or Hydraulic Brake Check | | |
| Stop Arm | | | * If No Air Brakes Line |
| (including operation) | | | Out Components |
| Brake | | | |
| Tail | | | |



Multifunction/Small Vehicle **Operators Medical Information Form** 2021-2022

Per 1 CCR 301.26, 4204-R-5.03(f) The operator shall annually complete the CDE Multifunction/Small Vehicle Operators Medical Information form (STU-17). Any yes annotations shall require a physician's release.

If you indicate "yes" on any of the listed questions below, a physician's release is required and shall be maintained in a district file, prior to transporting students in a school transportation vehicle. New Operator _____Yes Operator Name

| District/Cont | ractor | District Phone # | | | | | | | | |
|---------------|-----------|--|--|--|--|--|--|--|--|--|
| Operator Em | ail | Contact Phone# | | | | | | | | |
| Do you curre | ntly have | any of the following conditions? | | | | | | | | |
| Yes | No | Head/Brain injuries ordisorders | | | | | | | | |
| Yes | No | Seizures/Epilepsy | | | | | | | | |
| Yes | No | Eye Disorders or Impaired Vision (except corrective lens) | | | | | | | | |
| Yes | No | Ear Disorders or Loss of Balance | | | | | | | | |
| Yes | No | Heart Disease/Heart Attack or other Cardiovascular Condition | | | | | | | | |
| Yes | No | Heart Surgery (Valve replacement, bypass, angioplasty, pacemaker | | | | | | | | |
| Yes | No | High Blood Pressure (DOTstandards) | | | | | | | | |
| Yes | No | Muscular Disease | | | | | | | | |
| Yes | No | Shortness of Breath | | | | | | | | |
| Yes | No | Lung Disease, Emphysema, Asthma, Chronic Bronchitis | | | | | | | | |
| Yes | No | Kidney Disease | | | | | | | | |
| Yes | No | Severe Digestive Problems | | | | | | | | |
| Yes | No | Diabetes or Elevated BloodSugar | | | | | | | | |
| Yes | No | Nervous or Psychiatric Disorders | | | | | | | | |
| Yes | No | Severe Depression | | | | | | | | |
| Yes | No | Loss or alteredconsciousness | | | | | | | | |
| Yes | No | Fainting/Dizziness | | | | | | | | |
| Yes | No | Stroke or Paralysis | | | | | | | | |
| Yes | No | Chronic Low Back Pain | | | | | | | | |
| Yes | No | Sleep Disorder/Apnea/Daytime/Sleepiness/Loud Snoring | | | | | | | | |
| Yes | No | Other - Please explain | | | | | | | | |
| | | e information was provided voluntarily and is complete and true. I understand that failure to accurately ll exclude me from driving a school transportation vehicle while transporting students. | | | | | | | | |

Operator Signature _Date_____ Transportation Official ___Date _____



DEPARTMENT OF EDUCATION Colorado State Board of Education

COLORADO RULES FOR THE OPERATION, MAINTENANCE AND INSPECTION OF SCHOOL TRANSPORTATION VEHICLES

1 CCR 301-26

4204-R-1.00 Statement of Basis and Purpose

- 1.1 Colorado law provides for the State Board of Education to adopt and enforce regulations governing the safe operation of school buses used for the transportation of students pursuant to Sections 22-51-108 and 42-4-1904, C.R.S.
- 1.2 The purpose of these rules is to adopt and enforce regulations governing the reasonable and adequate standards of safety for the operation, maintenance and inspection of school transportation vehicles that promote the welfare of the students and afford reasonable protection to the public. These rules are designed to align with federal standards, reflect current industry practices, and incorporate recommendations from school district and service provider transportation professionals.
- 1.3 The Commissioner, or designee, may provide an exemption to the Rules for the Operation, Maintenance and Inspection of School Transportation Vehicles to the extent the Commissioner finds an exemption to be appropriate.
- 1.4 These rules shall become effective January 1, 2018 for all student transportation.

4204-R-2.00 Applicability of Rules

- 2.01 These rules and regulations apply to the operation, maintenance and inspection of all public-school transportation conducted by:
 - 2.01(a) A school district or charter school for routes (home to school, school to school, and school to home);
 - 2.01(b) A school district or charter school for activity trips (school related events);
 - 2.1 (c) A company or individual hired by a district or charter school(service provider) for routes (home to school, school to school, and school to home).

- 2.2 These rules are not intended to include:
 - 2.02(a) Private motor vehicles used exclusively to carry members of the owner's household; or
 - 2.02(b) Transportation arrangements not authorized by the including but not limited to sharing of actual gasoline expense or participation in a car pool; or
 - 2.02(c) The operations of vehicles in bona fide emergency situations consistent with policies of the local board of education; or
 - 2.02(d) Transportation conducted by a company or individual for activity trips (school related events), including service providers, parent volunteers, and coaches or teachers using a private motor vehicle; or
 - 2.02(e) Route transportation provided by a company or individual as part of their operation as a common carrier under the jurisdiction of the US Department of Transportation or Public Utilities Commission, including RTD, taxi cab services, Uber services, and Lyft services.
- 2.3 These rules shall not preclude a school district or service provider from establishing a more rigid standard or policy when deemed necessary by the local board of education or service provider.

4204-R-3.00 Non-Compliance

- 3.1 CDE will perform periodic School Transportation Advisory Reviews (STAR) of school districts, charter schools and service providers to evaluate and assist with compliance of these rules.
 - 3.01(a) CDE will provide school districts, charter schools and service providers written notification of the STAR findings.
 - 3.01(b) Upon receipt of the written notification of STAR findings, school districts, charter schools or service providers shall respond in writing to outline corrective actions if necessary.
- 3.2 CDE shall revoke or suspend the certificate for a school transportation annual inspector, school transportation annual inspector hands-on tester or inspection site under the following circumstances:
 - 3.02(a) A school transportation annual inspector, school transportation annual inspector handson tester or inspection site does not meet the requirements outlined in these rules.
 - 3.02(b) School transportation annual inspections or hands-on tests have not been properly conducted.

4204-R-4.00 School District, Charter School and Service Provider Employment Responsibilities

- 4.1 School districts, charter schools and service providers shall outline job responsibilities and develop job qualification standards for each school transportation vehicle operator and school transportation paraprofessionals, consistent with federal and state regulations. A copy of these requirements shall be provided to each school transportation vehicle operator and paraprofessional upon employment.
- 4.2 School districts, charter schools and service providers shall maintain separate files for each school transportation vehicle operator, school transportation paraprofessional, and school transportation annual inspector with written documentation evidencing all listed requirements indicated in Rule 5.00, Rule 6.00 and Rule 7.00, as applicable. Training documentation shall include the trainer name, date of the training, description of the training, duration of each topic covered and the signature of allattendees.
 - 4.02(a) If a school transportation vehicle operator, school transportation paraprofessional, or school transportation annual inspector works for more than one school district, charter school, service provider, or operator of an inspection site, each shall maintain a file with documentation in accordance with this rule.
- 4.3 School districts, charter schools and service providers shall ensure all employees required to possess a commercial driver's license (CDL) shall be in a US DOT approved substance abuse testing program.
- 4.4 School districts, charter schools and service providers shall not permit a school transportation vehicle operator to transport students, while the operator's ability or alertness is so impaired, through fatigue, illness or any other cause, as to make it unsafe for the operator to transport students.
- 4.5 School districts, charter schools and service providers shall have written emergency procedures and/or contingency plans to be followed in the event of a traffic accident, vehicle breakdown, unexpected school closing, unforeseen route change or relocation of a student stop in an emergency.
- 4.6 School district, charter schools and service providers shall ensure that documentation outlining transportation related services and requirements, including required use of Child Safety Restraint Systems and medical and behavioral information as it relates to student transportation, is available to applicable school transportation vehicle operators and paraprofessionals prior to providing transportation services.

4204-R-5.00 School Transportation Vehicle Operator Requirements

5.1 School transportation vehicle route operators (transporting students to and from school or from school to school) driving a School Bus with the capacity of 16 or greater passengers (counting the driver) and school transportation vehicle operators, other than route operators, driving vehicles with the capacity of 16 or greater passengers (counting the driver), including a School Bus, Multifunction Bus and Motor Coach Bus, shall meet or exceed the following requirements:

- 5.01(a) The operator shall possess a valid commercial driver's license (CDL) with the proper class and endorsements for size and type of vehicle(s) to be driven and the associated Medical Examination Report required pursuant to the Federal Motor Carrier Safety Regulations, 49 CFR section 391.43 (2015). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available at https://www.ecfr.gov/.
- 5.01(b) The operator shall be a minimum of 18 years of age.
- 5.01(c) The district or service provider shall obtain a motor vehicle record of each operator prior to transporting students and annually thereafter.
- 5.01(d) The operator shall be given and/or have access to the CDE School Bus/Multifunction Bus/Motor Coach Bus Operator Guide prior to transporting students.
- 5.01(e) The operator shall receive a minimum of six hours of in-service training annually which may include required training in 1 CCR 301-26-R-5.00. A portion of this annual in-service requirement may occur during the school year.
- 5.01(f) The operator shall successfully pass a CDE School Bus/Multifunction Bus/Motor Coach Bus Operator written test for the current school year prior to transporting students and annually thereafter.
- 5.01(g) The operator shall successfully pass a driving performance test including a pre-trip inspection prior to transporting students and annually thereafter. This test shall be conducted in a vehicle, which is similar in type and size to the vehicle the applicant is assigned to operate. Districts have the option to re-test at their discretion.
- 5.01(h) The operator shall receive pre-service training on the type of vehicle(s) to be driven, the type of duties they may be required to perform and in student confidentiality requirements prior to transporting students.
- 5.01(i) The operator shall have written documentation evidencing that they have received first aid training, including cardiopulmonary resuscitation and universal precautions within 90 calendar days after initial employment. If the operator holds a current first aid, cardiopulmonary resuscitation certificate it will meet the requirements of this section. Operators shall receive first aid training and/or re-certification every two (2) years thereafter.
- 5.01(j) The operator shall receive training regarding the proper use and maintenance of Child Safety Restraint Systems (CSRS) and proper wheelchair securement, when the operator is engaged in transportation involving these systems and devices prior to transporting students.

- 5.2 School transportation vehicle route operators (transporting students to and from school or from school to school) driving vehicles with the capacity of 15 or fewer passengers (counting the driver), including Type A Multifunction Bus and Small Vehicle, shall meet or exceed the following requirements:
 - 5.02(a) The operator shall possess a valid driver's license.
 - 5.02(b) The operator shall be a minimum of 18 years of age.
 - 5.02(c) The operator shall have a current physical examination (not to exceed two years) consistent with the requirements of the Federal Motor Carrier Safety Regulations, 49 CFR section 391.43 (2015). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available at https://www.ecfr.gov/.
 - 5.02(d) The district or service provider shall obtain a motor vehicle record of each operator prior to transporting students and annually thereafter.
 - 5.02(e) The operator shall be given and/or have access to the CDE Type A Multifunction Bus /Small Vehicle Route Driver Guide prior to transporting students.
 - 5.02(f) The operator shall receive a minimum of six hours of in-service training annually which may include required training in 1 CCR 301-26-R-5.00. A portion of this annual in-service requirement may occur during the school year.
 - 5.02(g) The operator shall successfully pass a CDE Type A Multifunction Bus/Small Vehicle Route Operator written test for the current school year prior to transporting students and annually thereafter.
 - 5.02(h) The operator shall successfully pass a driving performance test including a pre-trip inspection prior to transporting students and annually thereafter. This test shall be conducted in a vehicle, which is similar in type and size to the vehicle the applicant is assigned to operate. Districts have the option to re-test at their discretion.
 - 5.02(i) The operator shall receive pre-service training on the type of vehicle(s) to be driven, the type of duties they may be required to perform and in student confidentiality requirements prior to transporting students.
 - 5.02(j) The operator shall have written documentation evidencing that they have received first aid training, including cardiopulmonary resuscitation and universal precautions within 90 calendar days after initial employment. If the operator holds a current first aid, cardiopulmonary resuscitation certificate it will meet the requirements of this section. Operators shall receive first aid training and/or re-certification every two (2) years thereafter.

- 5.02(k) The operator shall receive training regarding the proper use and maintenance of Child Safety Restraint Systems (CSRS) and proper wheelchair securement, when the operator is engaged in transportation involving these systems and devices prior to transporting students.
- 5.3 School transportation vehicle operators, other than route operators, driving vehicles with the capacity of 15 or fewer passengers (counting the driver), including Type A Multifunction Bus and Small Vehicle, shall meet or exceed the following requirements:
 - 5.03(a) The operator shall possess a valid driver's license.
 - 5.03(b) The operator shall be a minimum of 18 years of age.
 - 5.03(c) The district or service provider shall obtain a motor vehicle record of each operator prior to transporting students and annually thereafter.
 - 5.03(d) The operator shall be given and/or have access to the CDE Type A Multifunction Bus /Small Vehicle Operator Guide prior to transporting students.
 - 5.03(e) The operator shall successfully pass a Type A CDE Multifunction Bus/Small Vehicle Operator written test for the current school year prior to transporting students and annually thereafter.
 - 5.03(f) The operator shall annually complete the CDE Multifunction/Small Vehicle Operators Medical Information Form (STU-17). Any yes annotations shall require a doctor's release.
 - 5.03(g) The operator shall receive pre-service training on the type of vehicle(s) to be driven, the type of duties they may be required to perform and in student confidentiality requirements prior to transporting students.
 - 5.03(h) The operator shall be given and/or have access to first aid information, including cardiopulmonary resuscitation and universal precautions.
 - 5.03(i) The operator shall successfully pass a driving performance test including a pre-trip inspection prior to transporting students. This test shall be conducted in a vehicle, which is similar in type and size to the vehicle the applicant is assigned to operate. Districts have the option to re-test in subsequent years at their discretion.
 - 5.03(j) Prior to driving a school transportation vehicle pursuant to 1 CCR 301-26-R-12.11, operators shall receive training on towing a trailer.
- 5.4 School transportation paraprofessional is a person assigned to assist a school transportation vehicle operator control behavior of students in the bus and/or ensure the safety of students getting on and off the school transportation vehicle.
 - 5.04(a) The school transportation paraprofessional shall receive pre-service training for the type of duties they may be required to perform prior to assisting with transporting students.

- 5.5 School transportation vehicle operators and school transportation paraprofessionals are required to be able to perform all essential functions including emergency evacuations when transporting students as determined by the school district or service provider job qualification standards.
 - 5.05(a) The employing school district or service provider has the authority to require at any time a medical evaluation of a school transportation vehicle operator or school transportation paraprofessional for any condition that could impair the employee's ability to operate a vehicle safely, assist student(s) as required by their position, and/or perform other required job duties, and may take appropriate action on the outcome of such evaluation.
 - 5.05(b) School transportation vehicle operators and school transportation paraprofessionals that have medical conditions which result in temporary loss of performance abilities shall provide return to work documentation from their physician, and any other requirements per district policy to the employing school district/service provide prior to returning to their assigned duties.

4204-R-6.00 School Transportation Annual Inspection Requirements

- 6.1 School transportation annual inspector is a person qualified to perform annual inspections on a school transportation vehicle to confirm the vehicle complies with CDE regulations.
- 6.2 School transportation annual inspectors shall meet or exceed the following requirements:
 - 6.02(a) The school transportation annual inspector shall be in possession of a valid driver's license with the proper class and endorsements for the size and type of vehicle(s) to be inspected.
 - 6.02(b) The school transportation annual inspector shall provide to the school district or service provider a Brake Inspector Qualification Certificate meeting the requirements of the Federal Motor Carrier Safety Regulations, 49 CFR section 396.25 (2015). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available at https://www.ecfr.gov/.
 - 6.02(c) The school transportation annual inspector shall have at least two years verifiable experience in the maintenance of light, medium or heavy-duty vehicles.
 - 6.02(d) The school transportation annual inspector shall successfully pass the CDE initial handson performance test.
 - 6.02(d)(1) A certified school transportation annual inspector hands-on tester must proctor the hands-on performance test.

- 6.02(e) The school transportation annual inspector shall successfully pass the CDE annual inspector qualification written test initially, and every three years thereafter pass the CDE annual inspector recertification written test.
 - 6.02(e)(1) A representative of the district or service provider, other than a school transportation annual inspector candidate, shall grade the written test.
- A school district, charter school, service provider or operator of an inspection site may submit a CDE Application for CDE Annual Inspector Qualification or Recertification Form (STU-20) to CDE verifying that the above requirements have been satisfied. CDE will issue an Annual Inspector Certificate.
- 6.4 If any of the above requirements become invalid, the annual inspector certificate is invalid until the requirement(s) is made valid.
- 6.5 If a school transportation annual inspector has an expired certificate, the certificate can be recertified as follows:
 - 6.05(a) If the certificate has been expired less than six months, then the CDE Annual Inspector Recertification Written Test is required.
 - 6.05(b) If the certificate has been expired between six and 12 months, then the CDE Annual Inspector Qualification Written Test is required.
 - 6.05(c) If the certificate has been expired for more than one year, then both the CDE Annual Inspector Qualification Written Test and the CDE hands-on performance test are required.

4204-R-7.00 Annual Inspector Hands-OnTester

- 7.1 School transportation annual inspector hands-on tester is a person qualified to proctor hands-on tests to annual inspector candidates.
- 7.2 School transportation annual inspector hands-on testers shall meet or exceed the following requirements:
 - 7.02(a) The school transportation annual inspector hands-on tester shall have maintained a CDE Annual Inspector certificate for a minimum of two years.
 - 7.02(b) The school transportation annual inspector hands-on tester shall have satisfactorily completed a four-hour CDE school transportation annual inspector hands-on tester training.
 - 7.2 (c) The school transportation annual inspector hands-on testers shall have completed a four-hour brake training in the last three years or have maintained an ASE School Bus or Medium/Heavy Duty Truck or Transit Bus Brake Certification.

- 7.02(d) The school transportation annual inspector hands-on tester candidate shall submit a CDE Application for Certification or Recertification of CDE Annual Inspector Hands-On Tester Form (STU-30) verifying that the above criteria have been satisfied. CDE will issue an Annual Inspector Hands-On Tester Certificate.
- 7.02(e) The school transportation annual inspector hands-on tester shall conduct at least two hands-on tests every three years or attend a CDE school transportation annual inspector hands-on recertification training to recertify as a school transportation annual inspector hands-on tester.
- 7.3 If any of the above requirements become invalid, the hands-on tester certificate is invalid until the requirement(s) is made valid.

4204-R-8.00 Pre-trip/Post-trip Vehicle Inspections

- 8.1 Each school transportation vehicle shall have a daily pre-trip and post-trip inspection performed and documented by the school transportation vehicle operator or a district, charter school or service provider authorized transportation employee. A daily pre-trip inspection shall be completed prior to a vehicle being placed in service. A daily post-trip inspection shall be completed at the end of daily operation of each vehicle.
- 8.2 The pre-trip and post-trip inspection requirements for school transportation vehicles, other than small vehicles, shall include at a minimum all items listed on the CDE School Transportation Vehicle (School Bus/Multifunction Bus/Motor Coach Bus) Pre-Trip and Post Trip Requirements Form (STU-9).
- 8.3 The pre-trip and post-trip inspection requirements for school transportation small vehicles shall include at a minimum all items listed on the CDE School Transportation Vehicle (Small Vehicle)

 Pre-Trip and Post Trip Requirements Form (STU-8).
- 8.4 School districts and service providers shall have a procedure in place to verify that students are not left on an unattended school transportation vehicle.

4204-R-9.00 Inspection SiteCertification

- 9.1 A CDE Inspection Site Certificate is required at each facility/location where annual inspections for school transportation vehicles are performed.
- 9.2 The inspection site shall meet or exceed the following criteria to acquire and maintain an inspection site certificate.
 - 9.02(a) The inspection site shall be large enough to accommodate the vehicle, equipment and tools necessary to perform the inspection.
 - 9.02(b) The inspection site shall have a floor surface or pad adequate to safely support the maximum weight of the largest vehicle to be inspected.
 - 9.02(c) The inspection site shall have adequate lighting and ventilation.

- 9.02(d) The inspection site or inspector shall, at the time of inspection, have the equipment and tools necessary to properly complete the annual inspection.
- 9.02(e) The inspection site or inspector shall have tools designed and calibrated to take accurate readings of appropriate measurements, such as brakes and tires.
- 9.3 The operator of an inspection site shall submit a request for an inspection site certificate on the CDE Application for Inspecting Site Certification Form (STU-22) that the above criteria have been satisfied.
- 9.4 The operator of an inspection site shall post the CDE Inspection Site Certificate at the inspection site.

4204-R-10.00 Annual Inspection

- 10.1 School s, charter schools and service providers shall ensure all school transportation vehicles and trailers pursuant to 1 CCR 301-26-R-12.11 have a CDE annual inspection conducted by a CDE certified annual inspector.
 - 10.01(a) Recently purchased school transportation vehicles shall successfully pass a CDE annual inspection prior to transporting students.
- 10.2 Annual inspection results shall be documented on the CDE Affidavit of Annual Inspection for School Transportation Vehicles Form(STU-25).
 - 10.02(a) A copy of the current Affidavit is maintained inside the vehicle and a copy is placed in the vehicle file.
- 10.3 All annual inspection criteria of school transportation vehicles must meet or exceed manufacturer's specifications. The annual inspection shall be documented and shall include at a minimum all fields listed on the CDE Annual Inspection and Preventive Maintenance Requirements Form (STU-26).
- 10.4 All annual inspection criteria of trailers must meet or exceed manufacturer's specifications and shall include at a minimum all fields listed on the CDE Trailer Annual Inspection and Preventive Maintenance Requirements Form (STU-27).
- During the annual inspection, all four wheels shall be pulled for full inspection of the foundation brake system. The three exceptions are:
 - 10.05(a) School transportation vehicles with less than 4,000 miles since the previous annual inspection shall have two wheels (one front and one rear) pulled different than those pulled for the previous inspection.
 - 10.05(b) School transportation vehicles equipped with a retarder meeting the specifications outlined in 1 CCR 301-25-R-33.00, shall have two wheels (one front and one rear) pulled which are different than those pulled for the previous inspection.

10.05(c) Trailers pursuant to 1 CCR 301-26-R-12.11 shall have 50 percent of the wheels pulled different than those pulled for the previous inspection.

4204-R-11.00 Maintenance and Repair

- 11.1 School districts, charter schools and service providers must ensure all school transportation vehicles are systematically inspected, maintained and repaired to ensure that school transportation vehicles are in safe and proper operating condition.
- 11.2 School districts, charter schools and service providers shall have a system to document preventative maintenance, reported defects and repairs made to school transportation vehicles.
- 11.3 School districts, charter schools and service providers shall maintain separate files for each school transportation vehicle with documentation of all annual inspections, all preventative maintenance and all reported damage, defects or deficiencies and the corresponding repair and maintenance performed.
- Any identified damage, defect or deficiency of a school transportation vehicle must be reported to the school district, charter schools or service provider which:
 - 11.04(a) Could affect the safety of operation of the school transportation vehicle, or
 - 11.04(b) Could result in a mechanical breakdown of the school transportation vehicle, or
 - 11.04(c) Results in noncompliance with Colorado Minimum Standards Governing School Transportation Vehicles (1 CCR 301-25) and/or manufacturer's specifications.
- 11.5 Documentation for reported defects must include all of the following:
 - 11.05(a) The name of the school district, charter school or service provider.
 - 11.05(b) Date and time the report was submitted.
 - 11.05(c) All damage, defects or deficiencies of the school transportation vehicle.
 - 11.05(d) The name of the individual who prepared the report.
- 11.6 Following a reported damage, defect or deficiency of a school transportation vehicle, school districts, charter schools and service providers or a representative agent must repair the reported damage, defects or deficiencies, or document that no repair is necessary, ensuring that the vehicle is in safe and proper operating condition prior to transporting students.
- 11.7 School districts, charter schools and service providers shall not transport students in a school transportation vehicle which is not in safe and proper operating condition. A school transportation vehicle shall be designated as "out-of-service" by a school district, charter schools or service provider, a school transportation annual inspector or the CDE School Transportation Unit.

- 11.07(a) Exemption Any school transportation vehicle discovered to be in an unsafe condition while being operated on the highway, roadway or private road may be continued in operation only to the nearest place where repairs can safely be affected. Such operation shall be conducted only if it is less hazardous to the public than to permit the vehicle to remain on the highway, roadway or private road.
- 11.8 Following a school transportation vehicle being placed "out-of-service", a school district, charter school, service provider or a representative agent must make required repairs, ensuring that the vehicle is in safe and proper operating condition prior to transporting students. In the event of being placed "out-of-service" during an annual inspection, the school transportation vehicle must successfully pass a CDE annual inspection prior to transporting students.
- 11.9 The preventative maintenance inspection on air drum brake systems shall include, at a minimum, that the brake rod travel has been measured and documented. The applied pressure method shall be used.
 - 11.09(a) The inspection-interval shall not exceed 4,000 miles for buses equipped with a manual slack adjuster air brake system.
 - 11.09(b) The inspection-interval shall not exceed 6,000 miles for buses equipped with an automatic slack adjuster air brake system.
- 11.10 The preventive maintenance inspection interval on air disc brake systems shall not exceed 6,000 miles and shall include, at a minimum; inspection and documentation of:
 - 11.10(a) Inspect the pad thickness by checking the mechanical wear indicators.
 - 11.10(b) Inspect the visible part of the rotors for cracks, excessive wear, damage, etc.
 - 11.10(c) Inspect running clearance. If the caliper has no movement or appears to move greater than the distances indicated by the manufacturer, then a full wheel removal inspection will be necessary.
- 11.11 The preventive maintenance inspection interval for hydraulic brake systems shall not exceed 6,000 miles and shall include, at a minimum, inspection and documentation of:
 - 11.11(a) Proper parking brake operation.
 - 11.11(b) Proper brake fluid level and clarity.
 - 11.11(c) Adequate pedal reserve.
 - 11.11(d) Proper hydraulic/vacuum assist operation.
 - 11.11(e) Visual inspection for brake fluid leakage.

11.12 If brake adjustment or repair is needed, the work shall be completed by or supervised by a DOT or equivalent qualified brake inspector meeting the requirements of the Federal Motor Carrier Safety Regulations, 49 CFR section 396.25 (2015). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available at https://www.ecfr.gov/.

4204-R-12.00 Operation of a School Transportation Vehicle

- 12.1 A school transportation vehicle shall not be operated in a manner which is unsafe or likely to cause an accident or damage of the vehicle.
- 12.2 A school transportation vehicle shall not be placed in motion on a roadway, highway or private road with the passenger entry door/service door open.
- 12.3 A school transportation vehicle's headlights or daytime running headlights shall be activated while the vehicle is in operation.
- 12.4 A school transportation vehicle shall not be fueled while students are on board, except in instances when unloading the students would present a greater hazard or peril to their safety.
- 12.5 Use of tobacco products as defined in Section 18-13-121(5), C.R.S., use or possession of illegal controlled substances, use or possession of alcohol and use or possession of marijuana or cannabinoid product, except as otherwise allowed by law, aboard any school transportation vehicle shall be prohibited at all times.
- 12.6 A school transportation vehicle operator shall not consume food unless the vehicle is stopped at a safe location with the park/emergency brake set.
- 12.7 When a school transportation vehicle is equipped with a roof mounted strobe lamp, the use of the strobe lamp is permitted only when the vehicle presents a hazard to other motorists, such as loading or unloading students in inclement weather or to enhance visibility of the vehicle when barriers inhibit such visibility.
- 12.8 A school transportation vehicle operator may use the strobe, in addition to the four-way hazard lamps, to warn other motorists that the vehicle is not in motion or is being operated at a speed of twenty-five miles per hour or less.
- 12.9 The school transportation vehicle operator shall use extreme caution when backing. Before backing on a roadway, highway or private property, the horn or audible warning device shall be sounded and four-way hazard lamps actuated or there shall be a person outside the vehicle giving direction.
 - 12.09(a) Backing a school transportation vehicle when students are outside of the vehicle at a student stop is prohibited.

- 12.10 School transportation vehicles including Type A, B, C and D School Bus, Multifunction Bus and Motor Coach Bus shall not be operated with a trailer or other vehicle attached while students are being transported.
- **12.11** School transportation small vehicles, with the capacity of 15 or fewer passengers (counting the driver), may tow trailers while students are being transported to the extent that trailering is a necessary component of a district sponsored program.

4204-R-13.00 Authorized Passengers

- 13.1 Only district or charter school personnel, students enrolled in a district or charter school, or law enforcement officials or individuals that have received prior authorization from the school district, charter schools or service provider may be passengers on any school transportation vehicle.
- 13.2 The number of passengers transported on any school transportation vehicle shall not exceed the maximum seating capacity of the vehicle. Small vehicle capacity shall not exceed the number of safety belts as designed by the vehicle manufacturer.
- 13.3 Passengers shall not be permitted to stand in any school transportation vehicle while the vehicle is in motion. This does not preclude authorized persons (such as school transportation paraprofessionals) from completing their duties as required.
- 13.4 School districts and service providers shall consider the size of the passengers when determining the number of passengers that can safely occupy a school transportation vehicle seat.

4204-R-14.00 Safety Restraints

- 14.1 A school transportation vehicle operator shall have the safety belt fastened, worn correctly and properly adjusted prior to the school transportation vehicle being placed in motion.
- 14.2 All passengers in a school transportation vehicle under 10,000 lbs. GVWR shall have their safety belts fastened, worn correctly and properly adjusted prior to the school transportation vehicle being placed in motion.

4204-R-15.00 Transportation of Miscellaneous Items

- 15.1 A school transportation vehicle operator shall make a reasonable and prudent determination that all carry-on items are properly handled in order to minimize the danger to all others.
- All baggage, articles, equipment or medical supplies not held by individual passengers shall be secured in a manner which assures unrestricted access to all exits by occupants, does not restrict the driver's ability to operate the bus and protects all occupants against injury resulting from falling or displacement of any baggage, article or equipment. Oxygen cylinders secured to a wheelchair shall be considered to be in compliance with this subsection, provided they do not impede access to any exit.
- 15.3 All chemicals and cleaning supplies carried on a school transportation vehicle must meet the following precautions:

- 15.03(a) Container is non-breakable.
- 15.03(b) Container is labeled with contents.
- 15.03(c) Pressurized aerosols are prohibited.
- 15.03(d) Container is secured in a bracket, or in a closed compartment in the driver's area or a compartment on the exterior of the bus.
- 15.03(e) Containers and quantities of products must be no more than 32 ounces in size.
- 15.4 Interior-decorations shall not be located within the driver's area (which includes the space in front of the front barriers including the step-well, dash, walls and ceiling, the windshield, the entry door, the driver's side window, and all windows in front of the front barrier), the first two passenger windows on both sides of the vehicle and all windows on the rear of the vehicle. Other decorations within the passenger compartment shall not:
 - 15.04(a) Cover any required lettering.
 - 15.04(b) Impede the aisle or any emergency exit.
 - 15.04(c) Hang from the walls and/or ceiling.

4204-R-16.00 Maximum Driving Time for School Transportation Vehicle Operators

- 16.1 The school transportation vehicle operator, including small vehicle operators, shall not drive nor shall the school district or service provider permit or require an operator to drive:
 - 16.01(a) In excess of 10 hours or after being on-duty 14 hours until completing 10 hours off-duty. This would include on-duty time for all employers. Ten hours off-duty may be consecutive or accumulated in two or more periods of off-duty time with one period having a minimum of 6 consecutive hours off-duty.
 - 16.01(b) After being on-duty for more than 70 hours in any seven consecutive days.
- In place of section 16.00 of these rules, the school district or service provider may comply with the Federal Motor Carrier Safety Regulations, 49 CFR section 391.43 (2015). Only the Federal Motor Carrier Safety Regulations adopted as of October 1, 2015 apply to this rule; later amendments do not apply. The federal regulations incorporated by reference in this rule are available for public inspection during regular business hours from the Colorado Department of Education, 201 E. Colfax Ave., Denver, Colorado 80209. In addition, these regulations are available athttps://www.ecfr.gov/.
- 16.3 Definitions:
 - 16.03(a) Adverse driving conditions In case of emergency, an operator may complete the trip without being in violation if such trip reasonably could have been completed absent the emergency.

- 16.03(b) Day Means any 24-consecutive hour period beginning at the time designated by the school district or service provider.
- 16.03(c) On-duty time Includes all time worked for any and all employers, including all driving and non-driving duties.
- 16.03(d) Off-duty time School transportation vehicle operators may consider waiting time at special events, meal stops and school related events as off-duty if the following criteria are met: (Compensated waiting time does not necessitate on-duty time.)
 - 16.03(d)(1) The operator shall be relieved of all duty and responsibility for the care and custody of the vehicle, its accessories and students, and
 - 16.03(d)(2) The operator shall be at liberty to pursue activities of his/her choice including leaving the premises on which the bus is located.
- 16.4 All school transportation vehicle operators shall document that they are in compliance with this section, hours of service.
 - 16.04(a) An operator's daily log, or equivalent, shall be completed for the trip in the operator's own handwriting, when the trip requires a scheduled or unscheduled overnight stay away from the work reporting location.

4204-R-17.00 Route Planning – Student Loading and Discharge

- 17.1 School transportation small vehicles, Type A Multifunction Buses with 15 or fewer passenger capacity (counting the driver) and School Buses (Types A, B, C, and D) may be used to transport students to and from school. Multifunction Buses Type B, C and D and Motor Coach Buses shall not be used to transport students to and from school.
- 17.2 The location of student stops shall consider factors including:
 - 17.02(a) Ages of the students.
 - 17.02(b) Visibility.
 - 17.02(c) Lateral clearance.
 - 17.02(d) Student access.
 - 17.02(e) Control of other motorists.
 - 17.02(e)(1) Student stops for Type A Multifunction Buses with 15 or fewer passenger capacity (counting the driver) and school transportation small vehicles should be located off of the roadway whenever possible.

- 17.3 School transportation vehicle operators shall stop at least 10 feet away from students at each designated stop. The school transportation vehicle operator shall apply the parking brake and shift the vehicle into neutral or park prior to opening the service door of a bus or passenger door(s) of a small vehicle.
- 17.4 The school transportation vehicle operator shall stop as far to the right of the roadway, highway or private road as possible before discharging or loading passengers, allowing sufficient area to the right and front of the vehicle but close enough to the right to prevent traffic from passing on the right so students may clear the vehicle safely while in sight of the operator.
 - 17.04(a) Exception: The school transportation vehicle operator may block the lane of traffic when passengers being received or discharged are required to cross the roadway.
- 17.5 Student stops shall not be located on the side of any major thoroughfare whenever access to the destination of the passenger is possible by the use of a road or street which is adjacent to the major thoroughfare.
- 17.6 If students are required to cross a roadway, highway or private road on which a student stop is being performed, they are prohibited from crossing a roadway, highway or private road constructed or designed to permit three or more separate lanes of vehicular traffic in either direction or with a median separating multiple lanes of traffic. This does not include crossing the roadway, highway or private road with the assistance of a traffic controls signal or with the assistance of a crossing guard.
- 17.7 Four-way hazard lamps shall be used on private property such as parking lots.
- 17.8 Alternating flashing red warning signal lamps shall not be activated within 200 feet of an intersection if the intersection is controlled by a traffic control signal.
- 17.9 Routes shall be planned as to:
 - 17.09(a) Eliminate, when practical, railroad crossings.
 - 17.09(b) Have stops be a minimum of 200 feet apart since alternating flashing amber warning signal lamps must be activated a minimum of 200 feet in advance of the stop on the roadway on which the bus stop will be performed.
 - 17.09(b)(1) Exception: Student stops located in areas where wildlife may create a high risk of threat to students' safety while they are waiting and/or walking to a student stop, may designate student stops less than 200 feet apart upon detailed written approval by the school district board of education or governing body of a charter school and/or their designee. A copy of the written approval shall be kept in the school transportation office and route operators shall be given written notice of the exception and have it indicated on route sheets.

- 17.10 In determining the length of routes, districts, charter schools and service providers must make an effort to minimize student ride times while considering student educational needs and the geographic boundaries, terrain, traffic congestion, and financial resources within the district. A local board of education or the governing body of a charter school may establish a maximum student ride time.
- 17.11 Pursuant to Section 42-4-1903(2), C.R.S., school transportation vehicle operators are not required to actuate the alternating flashing red warning signal lamps on a school bus when the student stop is at a location where the local traffic regulatory authority has by prior written designation declared such actuation unnecessary and when discharging or loading passengers who require the assistance of a lift device and no passenger is required to cross the roadway. Further, Type A Multifunction Buses with 15 or fewer passenger capacity (counting the driver) and school transportation small vehicles do not have the functionality to control traffic. In these instances, the school transportation vehicle operator shall stop as far to the right off the roadway as possible to reduce obstruction to traffic, activate the four-way hazard warning lamps a minimum of 200 feet prior to the student stop, continue to display the four-way hazard warning lamps until the process of discharging or loading passengers has been completed, and deactivate the four-way hazard lamps before resuming motion. Students are prohibited from crossing any lanes of traffic to access the student stop or after disembarking.
- 17.12 School transportation vehicle operators shall not relocate a student stop without approval of the school district or service provider.
- 17.13 School transportation vehicle operators of School Buses, Multifunction Buses and Motor Coach Buses, whether transporting students or not, shall apply the following procedures during the process of approaching, stopping and crossing railroad tracks:
 - 17.13(a) Activate the four-way hazard lamps not less than 200 feet from the railroad crossing to alert other motorists of the pending stop for the crossing.
 - 17.13(b) Stop the bus within 50 feet but not less than 15 feet from the nearest rail.
 - 17.13(c) When stopped, the bus should be as far to the right of the roadway as possible and should not form two lanes of traffic unless the highway is marked for four or more lanes of traffic.
 - 17.13(d) Use a prearranged signal to alert students to the need for quiet aboard the bus when approaching railroad tracks. Turn off all noise making equipment (fans, heater, radio, etc.)
- 17.14 After quietness aboard the stopped bus has been achieved, bus operators shall open the service door and operator window. The bus operator shall listen and look in both directions along the track(s) for any approaching train(s) and for signals indicating the approach of a train.
 - 17.14(a) If the tracks are clear, the bus operator shall close the service door and may then proceed in a gear low enough to permit crossing the tracks without having to manually shift gears. The bus operator shall cancel the four-way hazard lamps after the bus has cleared the tracks.

- 17.14(b) When two or more tracks are to be crossed, the bus operator shall not stop a second time unless the bus is completely clear of the first crossing and has at least 15 feet clearance in front and at least 15 feet clearance to the rear.
- 17.14(c) Before crossing the tracks, the bus operator shall verify that there is enough space after the tracks for the bus plus 15 feet if it is necessary to stop after crossing the tracks.
- 17.15 School transportation vehicle operators of School Buses, Multifunction Buses and Motor Coach Buses are not required to stop at crossings <u>only</u> controlled by a red, amber, green traffic control signal when it is in the green position or when the crossing is controlled by a police officer or human flag person, or when the crossing is marked with an official "exempt" sign placed on the railroad crossing light post or cross bucks post.

4204-R-18.00 Emergency Evacuation Drills

- 18.1 Emergency evacuation drills shall be conducted with students by all school transportation vehicle operators and school transportation paraprofessionals at least twice during each school year.
 - 18.01(a) One drill shall be conducted in the fall and the second drill conducted in the spring.
 - 18.01(b) Substitute and Multifunction operators of 16 or greater capacity (counting the driver) vehicles shall be trained how to conduct the emergency evacuation drills.
- 18.2 Students on school related events shall receive emergency evacuation instruction prior to departure.
- 18.3 School district, charter schools and service providers shall maintain records documenting that the required evacuation drills were conducted and/or evacuation instruction was given.



1 CCR 301.26 License and Training Matrix May 2021

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|---|--|--|---|--|--|--|---|---|--|---|--|---|---|
| Classification | ROUTE District/Charter Private Company Owned | ROUTE District/Charter Private Company Owned | ROUTE District/Charter Private Company Owned Type A Small Vehicle | ACTIVITY District/Charter Owned Multifunction | ACTIVITY District/Charter Owned Motor Coach | ACTIVITY District/Charter Owned Multifunction | ACTIVITY District/Charter Owned Multifunction Type A | ACTIVITY District/Charter Owned Small Vehicle (Suburban/Van Etc.) | ACTIVITY Privately Owned Bus | ACTIVITY Privately Owned Multifunction Type A | ACTIVITY Privately Owned Small Vehicle (Parent/Uber/Lyft Taxi, etc.) | ANNUAL INSPECTOR District/Charter Owned Technicians/ Annual Inspectors | ANNUAL INSPECTOR District/Charter Owned Technicians/ Annual Inspectors |
| Type of Vehicle Including driver | 16 or more passenger GVWR greater than 26,001 lbs. CDL | 16 or more passenger GVWR <u>less</u> than 26,001 lbs. CDL | 15 or less passenger GVWR <u>less</u> than 26,001 lbs. Valid Operator | 16 or more passenger GVWR greater than 26,001 lbs. CDL | 16 or more passenger GVWR greater than 26,001 lbs. CDL | 16 or more passenger GVWR <u>less</u> than 26,001 lbs. CDL | 15 or less passenger GVWR <u>less</u> than 26,001 lbs. Valid Operator | 15 or less passenger GVWR <u>less</u> than 26,001 lbs. Valid Operator | 16 or more passenger GVWR greater than 26,001 lbs. CDL | 15 or less passenger GVWR <u>less</u> than 26,001 lbs. Valid Operator | 15 or less passenger GVWR <u>less</u> than 10,001 Valid Operator | 16 or more passenger GVWR greater than 26,001 lbs. | 15 or less passenger GVWR <u>less</u> than 26,001 lbs. Valid Operator |
| Required CDL Class | В | С | N/A | В | В | С | N/A | N/A | Bus | N/A | N/A | В | N/A |
| Required Endorsements | "P" Passenger "S" School Bus "M" Restriction | "P" Passenger "S" School Bus "M" Restriction | N/A | "P" Passenger "S" School Bus "M" Restriction | "P" Passenger "S" School Bus "M" Restriction | "P" Passenger "S" School Bus | N/A | N/A | "P" Passenger "S" School Bus "M" Restriction | N/A | N/A | "P" Passenger "M" Restriction | N/A |
| FMCSA D & A | V | V | 21/2 | V | V | | 21/2 | 21/2 | V | 21/2 | 21/2 | V | |
| Pre-Employment D & A Testing | Yes | Yes | N/A District/Charter Policy | Yes | Yes | Yes | N/A District/Charter Policy | N/A District/Charter Policy | Yes | N/A District/Charter Policy | N/A District/Charter Policy | Yes Yes | N/A District/Charter Policy |
| FMCSA Random Drug Testing | Yes | Yes | N/A | Yes | Yes | Yes | N/A | N/A | Yes | N/A | N/A | Yes | N/A |
| FMCSA Required D & A Substance Abuse Training | Yes | Yes | District/Charter Policy | Yes | Yes | Yes | District/Charter Policy | District/Charter Policy | | District/Charter Policy | District/Charter Policy | Yes | District/Charter Policy |
| Required Medical Exam | USDOT DOT Physical | USDOT DOT Physical | USDOT DOT Physical | USDOT DOT Physical | USDOT DOT Physical | USDOT DOT Physical | CDE STU-17 | CDE STU-17 | USDOT DOT Physical | District/Charter/ Company Policy | District/Charter/ Company Policy | USDOT DOT Physical | District/Charter/ Company Policy |
| Required MVR Pre-Employment & Annually | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter Policy | District/Charter Policy |
| Required Mountain and Adverse Weather Training | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter Policy | District/Charter Policy |
| Required Confidentiality Training | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter Policy | District/Charter Policy |

| Classification | ROUTE District/Charter Private Company Owned | ROUTE District/Charter Private Company Owned | ROUTE District/Charter Private Company Owned Type A Small Vehicle | ACTIVITY District/Charter Owned Multifunction | ACTIVITY District/Charter Owned Motor Coach | ACTIVITY District/Charter Owned Multifunction | ACTIVITY District/Charter Owned Multifunction Type A | ACTIVITY District/Charter Owned Small Vehicle (Suburban/Van Etc.) | ACTIVITY Privately Owned Bus | ACTIVITY Privately Owned Multifunction Type A | ACTIVITY Privately Owned Small Vehicle (Parent/Uber/Lyft Taxi, etc.) | ANNUAL INSPECTOR District/Charter Owned Technicians/ Annual Inspectors | ANNUAL INSPECTOR District/Charter Owned Technicians/ Annual Inspectors |
|--|---|---|---|---|---|---|--|---|-------------------------------------|--|--|---|---|
| Required CDE Guide Certificate of Receipt | Yes School Bus/MF/ Motor Coach Only Once | Yes Type A/MF/ Small Vehicle/ Route/Activity Only Once | Yes Type A/MF/ Small Vehicle/ Route/Activity Only Once | Yes School Bus/MF/ Motor Coach Only Once | Yes School Bus/MF/ Motor Coach Only Once | Yes Type A/MF/ Small Vehicle/ Route/Activity Only Once | Yes Type A/MF/ Small Vehicle/ Route/Activity Only Once | Yes Type A/MF/ Small Vehicle/ Route/Activity Only Once | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter Policy | District/Charter Policy |
| Required CDE Written Exam | Yes School Bus/MF/ Motor Coach Test | Yes Type A/MF/ Small Vehicle/ Route/Activity Test | Yes Type A/MF/ Small Vehicle/ Route/Activity Test | Yes School Bus/MF/ Motor Coach Test | Yes School Bus/MF/ Motor Coach Test | Yes Type A/MF/ Small Vehicle/ Route/Activity Test | Yes Type A/MF/ Small Vehicle/ Route/Activity Test | Yes Type A/MF/ Small Vehicle/ Route/Activity Test | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter Policy | District/Charter Policy |
| Required First Aid/CPR Training | Yes | Yes | Yes | Yes | Yes | Yes | Must be given information | Must be given information | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter Policy | District/Charter Policy |
| Required Driver Performance Evaluation & Pre- Trip | Yes, Prior to Transporting Students & Annually | Yes, Prior to Transporting Students & Annually | Yes, Prior to Transporting Students & Annually | Yes, Prior to Transporting Students & Annually | Yes, Prior to Transporting Students & Annually | Yes, Prior to Transporting Students & Annually | Yes, Only Once Prior to Transporting Students | Yes, Only Once Prior to Transporting Students | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter Policy | District/Charter Policy |
| Required Job Description | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | Yes | Yes |
| Required Pre- Service Training Documentation | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | Yes, Per 301.26 Section 6.02 | Yes, Per 301.26 Section 6.02 |
| Required Child Safety Restraint System Training Documentation | Yes If Applicable | Yes If Applicable | Yes If Applicable | Yes If Applicable | Yes If Applicable | Yes If Applicable | Yes If Applicable | Yes If Applicable | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter/ Company Policy | District/Charter Policy | District/Charter Policy |
| Required Hours of In-service Annually | Yes | Yes | Yes | Yes | Yes | Yes | District/Charter Policy | District/Charter Policy | Yes | District/Charter Policy | District/Charter Policy | District/Charter Policy | District/Charter Policy |