

## Title 49: Transportation

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### PART 380—SPECIAL TRAINING REQUIREMENTS

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**Authority:** 49 U.S.C. 31133, 31136, 31307, and 31502; sec. 4007(a) and (b) of Pub. L. 102–240 (105 Stat. 2151–2152); and 49 CFR 1.73.

**Source:** 69 FR 16732, Mar. 30, 2004, unless otherwise noted.

## Subpart A—Longer Combination Vehicle (LCV) Driver-Training and Driver-Instructor Requirements—General

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### § 380.101 Purpose and scope.

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(a) *Purpose.* The purpose of this part is to establish minimum requirements for operators of longer combination vehicles (LCVs) and LCV driver-instructors.

(b) *Scope.* This part establishes:

- (1) Minimum training requirements for operators of LCVs;
- (2) Minimum qualification requirements for LCV driver-instructors; and
- (3) Procedures for determining compliance with this part by operators, instructors, training institutions, and employers.

### § 380.103 Applicability.

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The rules in this part apply to all operators of LCVs in interstate commerce, employers of such persons, and LCV driver-instructors.

### § 380.105 Definitions.

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(a) The definitions in part 383 of this subchapter apply to this part, except where otherwise specifically noted.

(b) As used in this part:

*Classroom instructor* means a qualified LCV driver-instructor who provides knowledge instruction that does not involve the actual operation of a longer combination vehicle or its components. Instruction may take place in a parking lot, garage, or any other facility suitable for instruction.

*Longer combination vehicle (LCV)* means any combination of a truck-tractor and two or more trailers or semi-trailers, which operate on the National System of Interstate and Defense Highways with a gross vehicle weight (GVW) greater than 36,288 kilograms (80,000 pounds).

*LCV Double* means an LCV consisting of a truck-tractor in combination with two trailers and/or semi-trailers.

*LCV Triple* means an LCV consisting of a truck-tractor in combination with three trailers and/or semi-trailers.

*Qualified LCV driver-instructor* means an instructor meeting the requirements contained in subpart C of this part. There are two types of qualified LCV driver-instructors: (1) classroom instructor and (2) skills instructor.

*Skills instructor* means a qualified LCV driver-instructor who provides behind-the-wheel instruction involving the actual operation of a longer combination vehicle or its components outside a classroom.

*Training institution* means any technical or vocational school accredited by an accrediting institution recognized by the U.S. Department of Education. A motor carrier's training program for its drivers or an entity that exclusively offers services to a single motor carrier is not a training institution.

### **§ 380.107 General requirements.**

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(a) Except as provided in §380.111, a driver who wishes to operate an LCV shall first take and successfully complete an LCV driver-training program that provides the knowledge and skills necessary to operate an LCV. The specific types of knowledge and skills that a training program shall include are outlined in the appendix to this part.

(b) Before a person receives training:

(1) That person shall present evidence to the LCV driver-instructor showing that he/she meets the general requirements set forth in subpart B of this part for the specific type of LCV training to be taken.

(2) The LCV driver-instructor shall verify that each trainee applicant meets the general requirements for the specific type of LCV training to be taken.

(c) Upon successful completion of the training requirement, the driver-student shall be issued an LCV Driver Training Certificate by a certifying official of the training entity in accordance with the requirements specified in subpart D of this part.

### **§ 380.109 Driver testing.**

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(a) *Testing methods.* The driver-student must pass knowledge and skills tests in accordance with the following requirements, to determine whether a driver-student has successfully completed an LCV driver-training program as specified in subpart B of this part. The written knowledge test may be administered by any qualified driver-instructor. The skills tests, based on actual operation of an LCV, must be administered by a qualified LCV skills instructor.

(1) All tests shall be constructed to determine if the driver-student possesses the required knowledge and skills set forth in the appendix to this part for the specific type of LCV training program being taught.

(2) Instructors shall develop their own tests for the specific type of LCV-training program being taught, but those tests must be at least as stringent as the requirements set forth in paragraph (b) of this section.

(3) LCV driver-instructors shall establish specific methods for scoring the knowledge and skills tests.

(4) Passing scores must meet the requirements of paragraph (b) of this section.

(5) Knowledge and skills tests shall be based upon the information taught in the LCV training programs as set forth in the appendix to this part.

(6) Each knowledge test shall address the training provided during both theoretical and behind-the-wheel instruction, and include at least one question from each of the units listed in the table to the appendix to this part, for the specific type of LCV training program being taught.

(7) Each skills test shall include all the maneuvers and operations practiced during the Proficiency Development unit of instruction (behind-the-wheel instruction), as described in the appendix to this part, for the specific type of LCV training program being taught.

(b) *Proficiency determinations.* The driver-student must meet the following conditions to be certified as an LCV driver:

(1) Answer correctly at least 80 percent of the questions on each knowledge test; and

(2) Demonstrate that he/she can successfully perform all of the skills addressed in paragraph (a)(7) of this section.

(c) *Automatic test failure.* Failure to obey traffic laws or involvement in a preventable crash during the skills portion of the test will result in automatic failure. Automatic test failure determinations are made at the sole discretion of the qualified LCV driver-instructor.

(d) *Guidance for testing methods and proficiency determinations.* Motor carriers should refer to the Examiner's Manual for Commercial Driver's License Tests for help in developing testing methods and making proficiency determinations. You may obtain a copy of this document by contacting the American Association of Motor Vehicle Administrators (AAMVA), 4300 Wilson Boulevard, Suite 400, Arlington, Virginia 22203.

### **§ 380.111 Substitute for driver training.**

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(a) *Grandfather clause.* The LCV driver-training requirements specified in subpart B of this part do not apply to an individual who meets the conditions set forth in paragraphs (b), (c), and (d) of this section. A motor carrier must ensure that an individual claiming eligibility to operate an LCV on the basis of this section meets these conditions before allowing him/her to operate an LCV.

(b) An individual must certify that, during the 2-year period immediately preceding the date of application for a Certificate of Grandfathering, he/she had:

(1) A valid Class A CDL with a "double/triple trailers" endorsement;

(2) No more than one driver's license;

(3) No suspension, revocation, or cancellation of his/her CDL;

(4) No convictions for a major offense while operating a CMV as defined in §383.51(b) of this subchapter;

(5) No convictions for a railroad-highway grade crossing offense while operating a CMV as defined in §383.51(d) of this subchapter;

(6) No convictions for violating an out-of-service order as defined in §383.51(e) of this subchapter;

(7) No more than one conviction for a serious traffic violation, as defined in §383.5 of this subchapter, while operating a CMV; and

(8) No convictions for a violation of State or local law relating to motor vehicle traffic control arising in connection with any traffic crash while operating a CMV.

(c) An individual must certify and provide evidence that he/she:

(1) Is regularly employed in a job requiring the operation of a CMV that requires a CDL with a double/triple trailers endorsement; and

(2) Has operated, during the 2 years immediately preceding the date of application for a Certificate of Grandfathering, vehicles representative of the type of LCV that he/she seeks to continue operating.

(d) A motor carrier must issue a Certificate of Grandfathering to a person who meets the requirements of this section and must maintain a copy of the certificate in the individual's Driver Qualification file.

<b>Longer Combination Vehicle (LCV) Driver-Training Certificate of Grandfathering</b>	
I certify that _____ has presented evidence of meeting the prerequisites set forth in the Federal Motor Carrier Safety Regulations (49 CFR § 380.111) for the substitute for LCV driver training and is qualified to operate the LCVs indicated below:	
<b>YES</b>	<b>NO</b>
<input type="checkbox"/>	<input type="checkbox"/>
<b>LCV Doubles</b>	
<input type="checkbox"/>	<input type="checkbox"/>
<b>LCV Triples</b>	
DRIVER NAME (First name, MI, Last name)	
Commercial Driver's License Number	STATE
ADDRESS OF DRIVER (Street Address, City, State and Zip Code)	
FULL NAME OF MOTOR CARRIER	Telephone Number
ADDRESS OF PRINCIPAL PLACE OF BUSINESS (Street Address, City, State, and Zip Code)	
SIGNATURE OF MOTOR CARRIER OFFICIAL	DATE ISSUED

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(e) An applicant may be grandfathered under this section only during the year following June 1, 2004.

### **§ 380.113 Employer responsibilities.**

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(a) No motor carrier shall:

(1) Allow, require, permit or authorize an individual to operate an LCV unless he/she meets the requirements in §§380.203 or 380.205 and has been issued the LCV driver-training certificate described in §380.401. This provision does not apply to individuals who are eligible for the substitute for driver training provision in §380.111.

(2) Allow, require, permit, or authorize an individual to operate an LCV which the LCV driver-training certificate, CDL, and CDL endorsement(s) do not authorize the driver to operate. This provision applies to individuals employed by or under contract to the motor carrier.

(b) A motor carrier that employs or has under contract LCV drivers shall provide evidence of the certifications required by §380.401 or §380.111 of this part when requested by an authorized FMCSA, State, or local official in the course of a compliance review.

## Subpart B—LCV Driver-Training Program

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### § 380.201 General requirements.

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(a) The LCV Driver-Training Program that is described in the appendix to this part requires training using an LCV Double or LCV Triple and must include the following general categories of instruction:

- (1) Orientation;
- (2) Basic operation;
- (3) Safe operating practices;
- (4) Advanced operations; and
- (5) Nondriving activities.

(b) The LCV Driver-Training Program must include the minimum topics of training set forth in the appendix to this part and behind-the-wheel instruction that is designed to provide an opportunity to develop the skills outlined under the Proficiency Development unit of the training program.

### § 380.203 LCV Doubles.

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(a) To qualify for the training necessary to operate an LCV Double, a driver-student shall, during the 6 months immediately preceding application for training, have:

- (1) A valid Class A CDL with a double/triple trailer endorsement;
- (2) Driving experience in a Group A vehicle as described in §383.91 of this subchapter. Evidence of driving experience shall be an employer's written statement that the driver has, for at least 6 months immediately preceding application, operated a Group A vehicle while under his/her employ;
- (3) No more than one driver's license;
- (4) No suspension, revocation, or cancellation of his/her CDL;
- (5) No convictions for a major offense, as defined in §383.51(b) of this subchapter, while operating a CMV;
- (6) No convictions for a railroad-highway grade crossing offense, as defined in §383.51(d) of this subchapter, while operating a CMV;
- (7) No convictions for violating an out-of-service order as defined in §383.51(e) of this subchapter;
- (8) No more than one conviction for a serious traffic violation, as defined in §383.5 of this subchapter, while operating a CMV; and

(9) No convictions for a violation of State or local law relating to motor vehicle traffic control arising in connection with any traffic crash while operating a CMV.

(b) Driver-students meeting the preliminary requirements in paragraph (a) of this section shall successfully complete a training program that meets the minimum unit requirements for LCV Doubles as set forth in the appendix to this part.

(c) Driver-students who successfully complete the Driver Training Program for LCV Doubles shall be issued a certificate, in accordance with subpart D of this part, indicating the driver is qualified to operate an LCV Double.

### **§ 380.205 LCV Triples.**

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(a) To qualify for the training necessary to operate an LCV Triple, a driver-student shall, during the 6 months immediately preceding application for training, have:

(1) A valid Class A CDL with a double/triple trailer endorsement;

(2) Experience operating the vehicle listed under paragraph (a)(2)(i) or (a)(2)(ii) of this section. Evidence of driving experience shall be an employer's written statement that the driver has, during the 6 months immediately preceding application, operated the applicable vehicle(s):

(i) Group A truck-tractor/semi-trailer combination as described in §383.91 of this subchapter; or

(ii) Group A truck-tractor/semi-trailer/trailer combination that operates at a gross vehicle weight of 80,000 pounds or less;

(3) No more than one driver's license;

(4) No suspension, revocation, or cancellation of his/her CDL;

(5) No convictions for a major offense, as defined in §383.51(b) of this subchapter, while operating a CMV;

(6) No convictions for a railroad-highway grade crossing offense, as defined in §383.51(d) of this subchapter, while operating a CMV;

(7) No convictions for violating an out-of-service order, as defined in §383.51(e) of this subchapter;

(8) No more than one conviction for a serious traffic violation, as defined in §383.5 of this subchapter, while operating a CMV; and

(9) No convictions for a violation of State or local law relating to motor vehicle traffic control arising in connection with any traffic crash, while operating a CMV.

(b) Driver-students meeting the preliminary requirements in paragraph (a) of this section shall successfully complete a training program that meets the minimum unit requirements for LCV Triples as set forth in the appendix to this part.

(c) Driver-students who successfully complete the Driver Training Program for LCV Triples shall be issued a certificate, in accordance with subpart D of this part, indicating the driver is qualified to operate an LCV Triple.

### **Subpart C—LCV Driver-Instructor Requirements**

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### **§ 380.301 General requirements.**

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There are two types of LCV driver-instructors: Classroom instructors and Skills instructors. Except as provided in §380.303, you must meet the conditions under paragraph (a) or paragraph (b) of this section to qualify as an LCV driver-instructor.

(a) *Classroom instructor.* To qualify as an LCV Classroom instructor, a person shall:

- (1) Have audited the driver-training course that he/she intends to instruct.
- (2) If employed by a training institution, meet all State requirements for a vocational instructor.

(b) *Skills instructor.* To qualify as an LCV skills instructor, a person shall:

- (1) Provide evidence of successful completion of the Driver-Training Program requirements, as set forth in subpart B of this part, when requested by employers and/or an authorized FMCSA, State, or local official in the course of a compliance review. The Driver-Training Program must be for the operation of CMVs representative of the subject matter that he/she will teach.
- (2) If employed by a training institution, meet all State requirements for a vocational instructor;
- (3) Possess a valid Class A CDL with all endorsements necessary to operate the CMVs applicable to the subject matter being taught (LCV Doubles and/or LCV Triples, including any specialized variation thereof, such as a tank vehicle, that requires an additional endorsement); and
- (4) Have at least 2 years' CMV driving experience in a vehicle representative of the type of driver training to be provided (LCV Doubles or LCV Triples).

### **§ 380.303 Substitute for instructor requirements.**

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(a) *Classroom instructor.* The requirements specified under §380.301(a) of this part for a qualified LCV driver-instructor are waived for a classroom instructor-candidate who has 2 years of recent satisfactory experience teaching the classroom portion of a program similar in content to that set forth in the appendix to this part.

(b) *Skills instructor.* The requirements specified under §380.301(b) of this part for a qualified LCV driver-instructor are waived for a skills instructor-candidate who:

- (1) Meets the conditions of §380.111(b);
- (2) Has CMV driving experience during the previous 2 years in a vehicle representative of the type of LCV that is the subject of the training course to be provided;
- (3) Has experience during the previous 2 years in teaching the operation of the type of LCV that is the subject of the training course to be provided; and
- (4) If employed by a training institution, meets all State requirements for a vocational instructor.

### **§ 380.305 Employer responsibilities.**

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(a) No motor carrier shall: (1) Knowingly allow, require, permit or authorize a driver-instructor in its employ, or under contract to the motor carrier, to provide LCV driver training unless such person is a qualified LCV driver-instructor under the requirements of this subpart; or

(2) Contract with a training institution to provide LCV driver training unless the institution:

(i) Uses instructors who are qualified LCV driver-instructors under the requirements of this subpart;

(ii) Is accredited by an accrediting institution recognized by the U.S. Department of Education;

(iii) Is in compliance with all applicable State training school requirements; and

(iv) Identifies drivers certified under §380.401 of this part, when requested by employers and/or an authorized FMCSA, State, or local official in the course of a compliance review.

(b) A motor carrier that employs or has under contract qualified LCV driver-instructors shall provide evidence of the certifications required by §380.301 or §380.303 of this part, when requested by an authorized FMCSA, State, or local official in the course of a compliance review.

### **Subpart D—Driver-Training Certification**

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### **§ 380.401 Certification document.**

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(a) A student who successfully completes LCV driver training shall be issued a Driver-Training Certificate that is substantially in accordance with the following form.

<b>Longer Combination Vehicle (LCV) Driver-Training Certificate</b>	
I certify that _____ has presented evidence of meeting the training prerequisites set forth in the Federal Motor Carrier Safety Regulations (49 CFR §§ 380.203(a) and 380.205(a)) for LCV training, and has successfully completed the LCV Driver-Training Course(s) indicated below:	
YES NO	
<input type="checkbox"/> <input type="checkbox"/>	LCV Doubles _____ Date Training Completed
<input type="checkbox"/> <input type="checkbox"/>	LCV Triples _____ Date Training Completed
I certify that the indicated LCV Driver-Training course(s) was provided by a qualified LCV driver-instructor as defined under 49 CFR § 380.105 and meet(s) the minimum requirements set forth in 49 CFR part 380, subparts A and B.	
DRIVER NAME (First Name, MI, Last Name)	
Commercial Driver's License Number	STATE
ADDRESS OF DRIVER (Street Address, City, State and Zip Code)	
FULL NAME OF TRAINING ENTITY	Telephone Number
BUSINESS ADDRESS (Street Address, City, State, and Zip Code)	
SIGNATURE OF TRAINING CERTIFYING OFFICIAL	DATE ISSUED

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(b) An LCV driver must provide a copy of the Driver-Training Certificate to his/her employer to be filed in the Driver Qualification File.

### Subpart E—Entry-Level Driver Training Requirements

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**Source:** 69 FR 29404, May 21, 2004, unless otherwise noted.

#### § 380.501 Applicability.

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All entry-level drivers who drive in interstate commerce and are subject to the CDL requirements of part 383 of this chapter must comply with the rules of this subpart, except drivers who are subject to the jurisdiction of the Federal Transit Administration or who are otherwise exempt under §390.3(f) of this subchapter.

#### § 380.502 Definitions.

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(a) The definitions in part 383 of this chapter apply to this part, except where otherwise specifically noted.

(b) As used in this subpart:

*Entry-level driver* is a driver with less than one year of experience operating a CMV with a CDL in interstate commerce.

*Entry-level driver training* is training the CDL driver receives in driver qualification requirements, hours of service of drivers, driver wellness, and whistle blower protection as appropriate to the entry-level driver's current position in addition to passing the CDL test.

### **§ 380.503 Entry-level driver training requirements.**

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Entry-level driver training must include instruction addressing the following four areas:

(a) *Driver qualification requirements.* The Federal rules on medical certification, medical examination procedures, general qualifications, responsibilities, and disqualifications based on various offenses, orders, and loss of driving privileges (part 391, subparts B and E of this subchapter).

(b) *Hours of service of drivers.* The limitations on driving hours, the requirement to be off-duty for certain periods of time, record of duty status preparation, and exceptions (part 395 of this subchapter). Fatigue countermeasures as a means to avoid crashes.

(c) *Driver wellness.* Basic health maintenance including diet and exercise. The importance of avoiding excessive use of alcohol.

(d) *Whistleblower protection.* The right of an employee to question the safety practices of an employer without the employee's risk of losing a job or being subject to reprisals simply for stating a safety concern (29 CFR part 1978).

### **§ 380.505 Proof of training.**

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An employer who uses an entry-level driver must ensure the driver has received a training certificate containing all the information contained in §380.513 from the training provider.

### **§ 380.507 Driver responsibilities.**

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Each entry-level driver must receive training required by §380.503.

### **§ 380.509 Employer responsibilities.**

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(a) Each employer must ensure each entry-level driver who first began operating a CMV requiring a CDL in interstate commerce after July 20, 2003, receives training required by §380.503.

(b) Each employer must place a copy of the driver's training certificate in the driver's personnel or qualification file.

(c) All records required by this subpart shall be maintained as required by §390.31 of this subchapter and shall be made available for inspection at the employer's principal place of business within two business days

after a request has been made by an authorized representative of the Federal Motor Carrier Safety Administration.

### **§ 380.511 Employer recordkeeping responsibilities.**

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The employer must keep the records specified in §380.505 for as long as the employer employs the driver and for one year thereafter.

### **§ 380.513 Required information on the training certificate.**

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The training provider must provide a training certificate or diploma to the entry-level driver. If an employer is the training provider, the employer must provide a training certificate or diploma to the entry-level driver. The certificate or diploma must contain the following seven items of information:

- (a) Date of certificate issuance.
- (b) Name of training provider.
- (c) Mailing address of training provider.
- (d) Name of driver.
- (e) A statement that the driver has completed training in driver qualification requirements, hours of service of drivers, driver wellness, and whistle blower protection requirements substantially in accordance with the following sentence:  
  
I certify \_\_\_\_\_ has completed training requirements set forth in the Federal Motor Carrier Safety Regulations for entry-level driver training in accordance with 49 CFR 380.503.
- (f) The printed name of the person attesting that the driver has received the required training.
- (g) The signature of the person attesting that the driver has received the required training.

### **Appendix to Part 380—LCV Driver Training Programs, Required Knowledge and Skills**

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The following table lists topics of instruction required for drivers of longer combination vehicles pursuant to 49 CFR part 380, subpart B. The training courses for operators of LCV Doubles and LCV Triples must be distinct and tailored to address their unique operating and handling characteristics. Each course must include the minimum topics of instruction, including behind-the-wheel training designed to provide an opportunity to develop the skills outlined under the Proficiency Development unit of the training program. Only a skills instructor may administer behind-the-wheel training involving the operation of an LCV or one of its components. A classroom instructor may administer only instruction that does not involve the operation of an LCV or one of its components.

### **Table to the Appendix—Course Topics for LCV Drivers**

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Section 1—Orientation

The units in this section must provide an orientation to the training curriculum and must cover the role LCVs play within the motor carrier industry, the factors that affect their operations, and the role that drivers play in the safe operation of LCVs.

*Unit 1.1—LCVs in Trucking.* This unit must provide an introduction to the emergence of LCVs in trucking and must serve as an orientation to the course content. Emphasis must be placed upon the role the driver plays in transportation.

*Unit 1.2—Regulatory factors.* This unit must provide instruction addressing the Federal, State, and local governmental bodies that propose, enact, and implement the laws, rules, and regulations that affect the trucking industry. Emphasis must be placed on those regulatory factors that affect LCVs, including 23 CFR 658.23 and Appendix C to part 658.

*Unit 1.3—Driver qualifications.* This unit must provide classroom instruction addressing the Federal and State laws, rules, and regulations that define LCV driver qualifications. It also must include a discussion on medical examinations, drug and alcohol tests, certification, and basic health and wellness issues. Emphasis must be placed upon topics essential to physical and mental health maintenance, including (1) diet, (2) exercise, (3) avoidance of alcohol and drug abuse, and caution in the use of prescription and nonprescription drugs, (4) the adverse effects of driver fatigue, and (5) effective fatigue countermeasures. Driver-trainees who have successfully completed the Entry-level training segments at §380.503(a) and (c) are considered to have satisfied the requirements of Unit 1.3.

*Unit 1.4—Vehicle configuration factors.* This unit must provide classroom instruction addressing the key vehicle components used in the configuration of longer combination vehicles. It also must familiarize the driver-trainee with various vehicle combinations, as well as provide instruction about unique characteristics and factors associated with LCV configurations.

## Section 2—Basic Operation

The units in this section must cover the interaction between the driver and the vehicle. They must teach driver-trainees how to couple and uncouple LCVs, ensure the vehicles are in proper operating condition, and control the motion of LCVs under various road and traffic conditions.

During the driving exercises at off-highway locations required by this section, the driver-trainee must first familiarize himself/herself with basic operating characteristics of an LCV. Utilizing an LCV, students must be able to perform the skills learned in each unit to a level of proficiency required to permit safe transition to on-street driving.

*Unit 2.1—Coupling and uncoupling.* This unit must provide instruction addressing the procedures for coupling and uncoupling LCVs. While vehicle coupling and uncoupling procedures are common to all truck-tractor/semi-trailer operations, some factors are peculiar to LCVs. Emphasis must be placed upon preplanning and safe operating procedures.

*Unit 2.2—Basic control and handling.* This unit must provide an introduction to basic vehicular control and handling as it applies to LCVs. This must include instruction addressing brake performance, handling characteristics and factors affecting LCV stability while braking, turning, and cornering. Emphasis must be placed upon safe operating procedures.

*Unit 2.3—Basic maneuvers.* This unit must provide instruction addressing the basic vehicular maneuvers that will be encountered by LCV drivers. This must include instruction relative to backing, lane positioning and path selection, merging situations, and parking LCVs. Emphasis must be placed upon safe operating procedures as they apply to brake performance and directional stability while accelerating, braking, merging, cornering, turning, and parking.

*Unit 2.4—Turning, steering, and tracking.* This unit must provide instruction addressing turning situations, steering maneuvers, and the tracking of LCV trailers. This must include instruction related to trailer sway and off-tracking. Emphasis must be placed on maintaining directional stability.

*Unit 2.5—Proficiency development: basic operations.* The purpose of this unit is to enable driver-students to gain the proficiency in basic operation needed to safely undertake on-street instruction in the Safe Operations Practices section of the curriculum.

The activities of this unit must consist of driving exercises that provide practice for the development of basic control skills and mastery of basic maneuvers. Driver-students practice skills and maneuvers learned in the Basic Control and Handling; Basic Maneuvers; and Turning, Steering and Tracking units. A series of basic exercises is practiced at off-highway locations until students develop sufficient proficiency for transition to on-street driving.

Once the driver-student's skills have been measured and found adequate, the driver-student must be allowed to move to on-the-street driving.

Nearly all activity in this unit will take place on the driving range or on streets or roads that have low-density traffic conditions.

### Section 3—Safe Operating Practices

The units in this section must cover the interaction between student drivers, the vehicle, and the traffic environment. They must teach driver-students how to apply their basic operating skills in a way that ensures their safety and that of other road users under various road, weather, and traffic conditions.

*Unit 3.1—Interacting with traffic.* This unit must provide instruction addressing the principles of visual search, communication, and sharing the road with other traffic. Emphasis must be placed upon visual search, mirror usage, signaling and/or positioning the vehicle to communicate, and understanding the special situations encountered by LCV drivers in various traffic situations.

*Unit 3.2—Speed and space management.* This unit must provide instruction addressing the principles of speed and space management. Emphasis must be placed upon maintaining safe vehicular speed and appropriate space surrounding the vehicle under various traffic and road conditions. Particular attention must be placed upon understanding the special situations encountered by LCVs in various traffic situations.

*Unit 3.3—Night operations.* This unit must provide instruction addressing the principles of Night Operations. Emphasis must be placed upon the factors affecting operation of LCVs at night. Night driving presents specific factors that require special attention on the part of the driver. Changes in vehicle safety inspection, vision, communications, speed management, and space management are needed to deal with the special problems night driving presents.

*Unit 3.4—Extreme driving conditions.* This unit must provide instruction addressing the driving of LCVs under extreme driving conditions. Emphasis must be placed upon the factors affecting the operation of LCVs in cold, hot, and inclement weather and in the mountains and desert. Changes in basic driving habits are needed to deal with the specific problems presented by these extreme driving conditions.

*Unit 3.5—Security issues.* This unit must include a discussion of security requirements imposed by the Department of Homeland Security, Transportation Security Administration; the U.S. Department of Transportation, Research and Special Programs Administration; and any other State or Federal agency with responsibility for highway or motor carrier security.

*Unit 3.6—Proficiency development.* This unit must provide driver-students an opportunity to refine, within the on-street traffic environment, their vehicle handling skills learned in the first three sections. Driver-student performance progress must be closely monitored to determine when the level of proficiency required for carrying out the basic traffic maneuvers of stopping, turning, merging, straight driving, curves, lane changing, passing, driving on hills, driving through traffic restrictions, and parking has been attained. The driver-student must also be assessed for regulatory compliance with all traffic laws.

Nearly all activity in this unit will take place on public roadways in a full range of traffic environments applicable to this vehicle configuration. This must include urban and rural uncontrolled roadways, expressways or freeways, under light, moderate, and heavy traffic conditions. There must be a brief classroom session to familiarize driver-students with the type of on-street maneuvers they will perform and how their performance will be rated.

The instructor must assess the level of skill development of the driver-student and must increase in difficulty, based upon the level of skill attained, the types of maneuvers, roadways and traffic conditions to which the driver-student is exposed.

#### Section 4—Advanced Operations

The units in this section must introduce higher level skills that can be acquired only after the more fundamental skills and knowledge taught in sections two and three have been mastered. They must teach the perceptual skills necessary to recognize potential hazards, and must demonstrate the procedures needed to handle an LCV when faced with a hazard.

The Maintenance and Trouble-shooting Unit must provide instruction that addresses how to keep the vehicle in safe and efficient operating condition. The purpose of this unit is to teach the correct way to perform simple maintenance tasks, and how to troubleshoot and report those vehicle discrepancies or deficiencies that must be repaired by a qualified mechanic.

*Unit 4.1—Hazard perception.* This unit must provide instruction addressing the principles of recognizing hazards in sufficient time to reduce the severity of the hazard and neutralize a possible emergency situation. While hazards are present in all motor vehicle traffic operations, some are peculiar to LCV operations. Emphasis must be placed upon hazard recognition, visual search, and response to possible emergency-producing situations encountered by LCV drivers in various traffic situations.

*Unit 4.2—Hazardous situations.* This unit must address dealing with specific procedures appropriate for LCV emergencies. These must include evasive steering, emergency braking, off-road recovery, brake failures, tire blowouts, rearward amplification, hydroplaning, skidding, jackknifing and the rollover phenomenon. The discussion must include a review of unsafe acts and the role they play in producing hazardous situations.

*Unit 4.3—Maintenance and trouble-shooting.* This unit must introduce driver-students to the basic servicing and checking procedures for the various vehicle components and provide knowledge of conducting preventive maintenance functions, making simple emergency repairs, and diagnosing and reporting vehicle malfunctions.

#### Section 5—Non-Driving Activities

The units in this section must cover activities that are not directly related to the vehicle itself but must be performed by an LCV driver. The units in this section must ensure these activities are performed in a manner that ensures the safety of the driver, vehicle, cargo, and other road users.

*Unit 5.1—Routes and trip planning.* This unit must address the importance of and requirements for planning routes and trips. This must include classroom discussion of Federal and State requirements for a number of topics including permits, vehicle size and weight limitations, designated highways, local access, the reasonable access rule, staging areas, and access zones.

*Unit 5.2—Cargo and weight considerations.* This unit must address the importance of proper cargo documentation, loading, securing and unloading cargo, weight distribution, load sequencing and trailer placement. Emphasis must be placed on the importance of axle weight distribution, as well as on trailer placement and its effect on vehicle handling.

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