

**Florida Department of Education  
Curriculum Framework**

**Program Title:** Commercial Vehicle Driving  
**Program Type:** Career Preparatory  
**Career Cluster:** Transportation, Distribution and Logistics

**Career Certificate Program**

Program Number	I490205
CIP Number	0649020500
Grade Level	30, 31
Program Length	320 hours
Teacher Certification	Refer to the <b>Program Structure</b> section
CTSO	SkillsUSA
SOC Codes (all applicable)	Please see the CIP to SOC Crosswalk located at the link below.
CTE Program Resources	<a href="http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.stml">http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.stml</a>
Basic Skills Level	N/A

**Purpose**

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Transportation, Distribution and Logistics career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Transportation, Distribution and Logistics career cluster.

The purpose of this program is to prepare students for a Class “A” Commercial Driver License.

This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the Commercial Vehicle Driving industry, planning, management, labor issues, community issues and health, safety, and environmental issues. The content includes but is not limited to the following: Loading and unloading cargo; reporting delays or accidents on the road; verifying load against shipping papers; and keeping records.

**Additional Information** relevant to this Career and Technical Education (CTE) program is provided at the end of this document.

**Program Structure**

This program is a planned sequence of instruction consisting of one occupational completion point.

This program is comprised of courses which have been assigned course numbers in the SCNS (Statewide Course Numbering System) in accordance with Section 1007.24 (1), F.S. Career and Technical credit shall be awarded to the student on a transcript in accordance with Section 1001.44(3)(b), F.S.

To teach the course(s) listed below, instructors must hold at least one of the teacher certifications indicated for that course.

The following table illustrates the postsecondary program structure:

OCP	Course Number	Course Title	Teacher Certification	Length
A	TRA0080	Tractor Trailer Truck Driver	COMM DRIV @7 7G	320 hours

**Common Career Technical Core – Career Ready Practices**

Career Ready Practices describe the career-ready skills that educators should seek to develop in their students. These practices are not exclusive to a Career Pathway, program of study, discipline, or level of education. Career Ready Practices should be taught and reinforced in all career exploration and preparation programs with increasingly higher levels of complexity and expectation as a student advances through a program of study.

1. Act as a responsible and contributing citizen and employee.
2. Apply appropriate academic and technical skills.
3. Attend to personal health and financial well-being.
4. Communicate clearly, effectively and with reason.
5. Consider the environmental, social and economic impacts of decisions.
6. Demonstrate creativity and innovation.
7. Employ valid and reliable research strategies.
8. Utilize critical thinking to make sense of problems and persevere in solving them.
9. Model integrity, ethical leadership and effective management.
10. Plan education and career path aligned to personal goals.
11. Use technology to enhance productivity.
12. Work productively in teams while using cultural/global competence.

**Standards**

After successfully completing this program, the student will be able to perform the following:

- 01.0 Understand vehicle safety and accident prevention procedures.
- 02.0 Understand and comply with vehicle operating regulations.
- 03.0 Demonstrate proper cargo handling and documentation procedures.
- 04.0 Demonstrate trip planning preparation procedures.
- 05.0 Demonstrate vehicle inspection, maintenance, and servicing procedures.
- 06.0 Demonstrate basic vehicle control procedures.
- 07.0 Demonstrate backing skills and basic vehicle maneuvers.
- 08.0 Demonstrate coupling and uncoupling skills.
- 09.0 Demonstrate road driving skills.
- 10.0 Demonstrate hazardous driving skills.
- 11.0 Apply concepts learned for obtaining a Commercial Driver's License (CDL).

**Florida Department of Education  
Student Performance Standards**

**Program Title:** Commercial Vehicle Driving  
**Career Certificate Program Number:** I490205

**Course Description:** The Tractor Trailer Truck Driver course prepares students for entry into the trucking and logistics industry. Students explore career opportunities and requirements of a professional tractor trailer driver. Students study vehicle safety, accident prevention, operating regulations, cargo handling, documentation procedures, pre-trip preparation, vehicle inspection, maintenance, service, control procedures, backing, coupling, uncoupling, maneuvering, road and hazardous driving skills, and licensing requirements.

<b>Course Number: TRA0080</b> <b>Occupational Completion Point: A</b> <b>Tractor Trailer Truck Driver – 320 Hours</b>	
01.0	Understand vehicle safety and accident prevention procedures. The student will be able to:
01.01	Understand, identify and explain the use of vehicle safety equipment.
01.02	Understand the use of fire extinguishers.
01.03	Utilize seat belts and personal protection gear appropriate to type of operation.
01.04	Describe safe lifting procedures through use of hands-on labs or through viewing safety videos.
01.05	Describe personal safety equipment and procedures.
01.06	Describe actions applicable for vehicle accidents.
01.07	Review reports in a classroom activity.
01.08	Understand accident reporting requirements (company, state, federal).
01.09	Identify all information needed for accident reports to the State, the employer, and the insurance company.
01.10	Review an accident report.
01.11	Describe procedures for protecting the scene of an accident.
01.12	Describe personal liability requirements.
01.13	Identify hazardous road conditions that are a potential threat to the safety of the truck driver.
01.14	Describe activities and characteristics of other road users that make them potentially dangerous.
01.15	Describe the potential consequences of excessive speed.
01.16	Describe the potential consequences of use of drugs or alcohol.

01.17	Demonstrate safety procedures for entering and exiting vehicles.
02.0	Understand and comply with vehicle operating regulations. The student will be able to:
02.01	Understand and comply with hours-of-service regulations.
02.02	Maintain a complete, neat, and accurate driver's duty status log including discussion of electronic logs.
02.03	Keep accurate records required by hours-of-service regulations.
02.04	Review mathematical calculations necessary to recap and apply totals to the hours-of-service regulations.
02.05	Determine driving hours remaining on a particular day or tour of duty.
02.06	Understand and comply with applicable United States Department of Transportation regulations including Federal Motor Carrier Safety Administration rules and regulations - Compliance, Safety, and Accountability (CSA) particularly the role of drivers and motor carriers.
02.07	Understand and comply with Federal, State and Local traffic laws including restrictions on vehicle size and weight including permits when required.
03.0	Demonstrate proper cargo handling and documentation procedures. The student will be able to:
03.01	Understand legal gross weight and axle weight.
03.02	Describe cargo load to meet legal weight and safety requirements.
03.03	Discuss how to secure cargo using blocking, bracing, packing, rope, cable, chains and strapping.
03.04	Discuss the placement of placards when carrying hazardous materials.
03.05	Discuss procedure for use of common cargo handling equipment, including pallets, jacks, dollies, hand trucks, nets, slings, poles and other equipment.
03.06	Discuss categories of hazardous materials and the need for specialized training to handle hazardous materials.
03.07	Discuss hazardous materials documentation requirements.
03.08	Understand nature, amount, and condition of cargo on both pickup and delivery.
03.09	Understand information on bill of lading and properly record and report discrepancies and damage to the cargo.
03.10	Understand appropriate signatures on delivery receipts and other required forms.
03.11	Compare door seal number against shipping document.
04.0	Demonstrate trip planning preparation procedures. The student will be able to:
04.01	Plan a route from one point to another that is optimal in terms of travel time, fuel costs, potential hazards and federal, state and local travel restrictions.
04.02	Describe the use of manual and contemporary GPS navigation systems.
04.03	Estimate travel times and arrange for a secure place for layovers.

04.04	Demonstrate map reading skills.
04.05	Estimate fuel consumption and plan fuel stops.
04.06	Estimate expense money and obtain funds and/or credit cards.
05.0	Demonstrate vehicle inspection, maintenance, and servicing procedures. The student will be able to:
05.01	Describe function and operation of principle vehicle systems including, engine, engine auxiliary brake, drive train, coupling, suspension and electrical system, DEP engines, and regeneration processes where applicable.
05.02	Check vehicle registration and permit.
05.03	Check accident report packets for proper contents.
05.04	Check for previous days DVIR.
05.05	Check general appearance and condition of vehicle.
05.06	Check fuel, oil, water, automatic transmission, and diesel emissions fluid levels (DEF).
05.07	Check and clean all lights and reflectors.
05.08	Check tires, rims, and suspension.
05.09	Check horn, windshield wipers, and mirrors.
05.10	Check fifth wheel, trailer hook-up and brake lines.
05.11	Demonstrate proper procedure for expelling moisture from the air tanks after each trip.
05.12	Test parking brake and service brake before moving/driving vehicle.
05.13	Check emergency bi-directional reflective triangles, fire extinguishers, and spare fuses.
05.14	Check instruments for normal readings.
05.15	Check steering system, brake action and tractor protection valve.
05.16	Check cargo-blocking, bracing and tie down (if applicable).
05.17	Perform enroute inspections.
05.18	Perform post-trip inspection of vehicle and all systems.
05.19	Clean interior and exterior of vehicle.
05.20	Check mud/rain flaps.
05.21	Review adjusting procedures for tandem and fifth-wheel slides, if so equipped.
06.0	Demonstrate basic vehicle control procedures. The student will:
06.01	Demonstrate safe starting procedures.

06.02	Start, warm up and shut down the engine, according to the manufacturer's specifications.
06.03	Build full pressure (120-140 PSI) in air tanks or to governed cut-out.
06.04	Coordinate use of accelerator and clutch to achieve smooth acceleration and avoid clutch abuse (if applicable).
06.05	Maintain proper engine RPM while driving (if applicable).
06.06	Properly modulate air brakes to bring vehicle to a smooth stop.
06.07	Properly shift up and down through all gears using clutch (if applicable).
06.08	Double clutch non-synchronized transmissions and time shift for smooth and fuel-efficient performance (if applicable).
06.09	Select proper gear for speed and highway conditions (if applicable).
06.10	Operate manual, automatic, or semiautomatic transmissions as available training equipment allows.
06.11	Coordinate steering, braking and acceleration to take the vehicle through a desired path.
06.12	Adequately judge the path trailer will take (off tracking) as vehicle negotiates left or right curves and turns.
06.13	Use clutch and gears to maintain proper operating range/power/RPM of the motor while slowing the vehicle (if applicable).
06.14	Park the vehicle, set brakes and shut off the engine.
06.15	Discuss chocking procedures.
07.0	Demonstrate backing skills and basic vehicle maneuvers. The student will:
07.01	Check area before and during backing.
07.02	Properly utilize guides and mirrors.
07.03	Properly back in straight line and curved paths.
07.04	Properly back into both a 45° and 90° alley docks.
07.05	Navigate through a 100 feet alley both forward and backward.
07.06	Properly demonstrate an offset left/right backing maneuver.
07.07	Properly position unit for backing into a loading dock; back to a dock (actual or simulated).
07.08	Properly stop unit within 36 inches of the dock without contacting dock (actual or simulated).
07.09	Properly parallel park (sightside/blindsides).
07.10	Judge side, rear and overhead clearances, and path of the trailer.
07.11	Make a straight-in approach to a lane.
08.0	Demonstrate coupling and uncoupling skills. The student will be able to:



08.01	Reverse-steer and articulate a vehicle.
08.02	Align the tractor properly to connect with trailer.
08.03	Back and secure the tractor properly into the trailer kingpin without damage.
08.04	Perform tug test against the locking mechanisms and visual checks to make sure coupling is secure.
08.05	Connect electrical and air lines properly.
08.06	Set in-cab air brake controls properly.
08.07	Retract and secure landing gear after coupling is secure.
08.08	Properly uncouple and secure the trailer.
09.0	Demonstrate road driving skills. The student will be able to:
09.01	Carefully enter traffic from a stopped or parked position.
09.02	Use clutch and gears properly (if applicable).
09.03	Proceed from a stopped position without rolling backward.
09.04	Use mirrors properly.
09.05	Signal intention to turn well in advance of turn.
09.06	Get into proper lane to turn well in advance of turn.
09.07	Select and shift to proper gear prior to beginning any turn (if applicable).
09.08	Check traffic conditions and turn only when intersection is clear.
09.09	Restrict traffic from passing on right when preparing to complete a righthand turn. Maintain 3 feet or less on right side of vehicle.
09.10	Execute a righthand turn maintaining 3 feet or less on right side of vehicle.
09.11	Complete a turn promptly and safely and not impede other traffic.
09.12	Obey all traffic signals.
09.13	Plan stop in advance and adjust speed correctly.
09.14	Discuss use of brakes properly on grades.
09.15	Plan stops far enough in advance to avoid hard braking.
09.16	Stop clear of crosswalks.
09.17	Come to a complete stop at all stop signs.
09.18	Yield right of way at intersections having yield signs.

09.19	Check for cross traffic regardless of traffic signals.
09.20	Approach all intersections prepared to stop if necessary.
09.21	Stop a minimum of 15 feet but not more than 50 feet before railroad grade crossing if stop is necessary.
09.22	Select proper gear to avoid shifting gears on railroad grade crossing (if applicable).
09.23	Determine sufficient space required for passing.
09.24	Pass only in safe locations.
09.25	Describe in detail how to pass safely on a two-lane highway.
09.26	Describe in detail how to pass safely on multiple lane highways.
09.27	Signal lane changes before and after passing.
09.28	Pass only when appropriate to avoid impeding other traffic.
09.29	Return to right lane promptly, but only when safe to do so.
09.30	Observe speed limits.
09.31	Adjust speed properly to road, weather, and traffic conditions.
09.32	Slowdown in advance of curves, danger zones and intersections.
09.33	Maintain consistent speed where possible.
09.34	Yield right of way.
09.35	Allow faster traffic to pass.
09.36	Understand or demonstrate the proper procedures for navigating a weigh station.
09.37	Comply with other inspection station procedures (e.g., agriculture).
09.38	Use horn only when necessary.
09.39	Park only in legally permissible parking areas.
09.40	Check instruments at regular intervals.
09.41	Determine minimum front-to-rear distances when following other vehicles using industry recognized standards.
10.0	Demonstrate hazardous driving skills. The student will be able to:
10.01	Understand preparation for operation in cold weather.
10.02	Understand proper procedure for checking ice accumulation on brakes, slack adjuster, air hoses, electrical wiring and radiator shutters during operation.
10.03	Perform operational adjustments necessary to maintain control in all weather conditions, including speed selection, braking and following distance.

10.04	Describe procedures to check safe operation of brakes after driving through deep water.
10.05	Perform proper use of windshield wipers, washers, and defrosters to maintain visibility.
10.06	Discuss how to recognize and evaluate changing road conditions that produce low traction, including initial rainfall, ice, snow, and mud.
10.07	Demonstrate or understand ability for recognizing conditions that produce low traction, including initial rainfall, ice, snow, and mud.
10.08	Describe and understand procedures to avoid skidding and jackknifing.
10.09	Understand procedures to avoid hydroplaning and describe the road and vehicle conditions that produce it.
10.10	Understand procedures for mounting and dismounting tire chains.
10.11	Understand procedures for extricating the vehicle from snow, sand and mud by maneuvering or towing.
10.12	Demonstrate ability to adjust rate of change in speed and direction to accommodate road conditions to avoid skidding.
10.13	Describe procedures required to coordinate acceleration and shifting to overcome the resistance of snow, sand, and mud.
10.14	Demonstrate ability to perform brake checks on equipment prior to mountain driving.
10.15	Discuss procedures required to use right lane or special truck lane going up grades.
10.16	Discuss procedures required to place transmission in appropriate gear for engine braking before starting downgrade.
10.17	Discuss procedures required to use proper braking techniques and maintain proper engine braking before starting downgrades.
10.18	Discuss proper use of truck escape ramp when brakes fail on a downgrade.
10.19	Discuss procedure required for observing temperature gauge frequently when pulling heavy loads up long grades.
10.20	Discuss the effect of vehicle weight and speed upon braking and shifting ability on long downgrades.
10.21	Identify the meaning and use of percent of grade signs.
10.22	Discuss bringing the truck to a stop in the shortest possible distance while maintaining directional control on a dry surface.
10.23	Discuss procedures to make an evasive turn off the roadway and return to the roadway while maintaining directional control.
10.24	Discuss procedures to bring the vehicle to a stop in the event of a brake failure.
10.25	Discuss procedures to maintain control of the vehicle in the event of a blowout.
10.26	Discuss procedures to bring truck to a stop in the shortest possible distance while maintaining directional control when operating on a slippery surface.
10.27	Discuss procedures to recover from vehicle skids induced by snow, ice, water, oil, sand, wet leaves, or other slippery surfaces.
10.28	Discuss procedures to counter steer out of a skid in a way that will regain directional control and not produce another skid.
10.29	Discuss procedure to operate brakes properly to provide maximum braking without loss of control.
11.0	Apply concepts learned for obtaining a Commercial Driver's License (CDL). The student will be able to:

11.01	Demonstrate competence in performing basic Commercial Vehicle Driving skills utilizing the CDL testing criteria.
11.02	Demonstrate understanding and knowledge of Commercial Vehicle Driving Laws as required, to safely, and legally operate a commercial vehicle.

## Additional Information

### Laboratory Activities

Laboratory investigations that include scientific inquiry, research, measurement, problem solving, emerging technologies, tools, and equipment, as well as, experimental, quality, and safety procedures are an integral part of this career and technical program/course. Laboratory investigations benefit all students by developing an understanding of the complexity and ambiguity of empirical work, as well as the skills required to manage, operate, calibrate, and troubleshoot equipment/tools used to make observations. Students understand measurement error; and have the skills to aggregate, interpret, and present the resulting data. Equipment and supplies should be provided to enhance hands-on experiences for students.

### Special Notes

Students entering this program must exhibit a safe driving record, be at least 18 years of age and comply with State and Federal licensing requirements as outlined by the Federal Motor Carrier Safety Administration (FMCSA). It is recommended that instruction includes 1000 miles of road driving under the supervision of a qualified commercial vehicle driver prior to completion of the program. Road driving activities will include experience on two-lane, four-lane, interstate, and city streets and highways. When conditions allow, students will be given instruction at night on both wet and/or dry roads. Instruction in driving bob-tail, empty and loaded vehicles will be given. **All students with a Commercial Learners Permit (CLP) must be accompanied by an instructor.**

**Students are required to obtain their Class A Commercial Driver's License to be awarded a Program Certificate of Completion.**

### **Highly recommended student to instructor ratios:**

Classroom – 12 to 1

Lab – Variable

Range – 6 to 1

Road Instruction – 2 to 1 per vehicle

### Career and Technical Student Organization (CTSO)

SkillsUSA is the co-curricular career and technical student organization(s) providing leadership training and reinforcing specific career and technical skills. Career and Technical Student Organizations provide activities for students as an integral part of the instruction offered. The activities of such organizations are defined as part of the curriculum in accordance with Rule 6A-6.065, F.A.C.

### Cooperative Training – OJT

On-the-job training is appropriate but not required for this program. Whenever offered, the rules, guidelines, and requirements specified in the OJT framework apply.

**Accommodations**

Federal and state legislation requires the provision of accommodations for students with disabilities to meet individual needs and ensure equal access. Postsecondary students with disabilities must self-identify, present documentation, request accommodations if needed, and develop a plan with their counselor and/or instructors. Accommodations received in postsecondary education may differ from those received in secondary education. Accommodations change the way the student is instructed. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

Note: postsecondary curriculum and regulated secondary programs cannot be modified.