

Florida Department of Education
CURRICULUM FRAMEWORK

Program Title: Commercial Class "B" Driving
Occupational Area: Industrial Education

	PSAV
Program Numbers	I490251
CIP Number	0649.020502
Grade Level	30, 31
Length	150 hours
SOC	53-3033
Certification	COMM DRIV @7 G

- I. **MAJOR CONCEPTS/CONTENT:** The purpose of this program is to prepare students FOR A FLORIDA CLASS B LICENSE Truck Driver Heavy (any industry) Industry Title.

The course content will include the following: operation of Class B vehicles; loading and unloading cargo; reporting delays or accidents on the road; verifying load against shipping papers; and keeping records. The course content should also include instruction in human relations, leadership, communication, and employability skills, and safe, efficient work practices.

This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the Commercial Vehicle Driving industry; planning, management, finance, technical and product skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

- II. **LABORATORY ACTIVITIES:** Driving range activities are an integral part of this program. These activities provide instruction in the use of tools, equipment, materials and processes found in the industry. Students are also instructed in the following: loading, backing and maneuvering on a practice field and public highways with other traffic.
- III. **SPECIAL NOTE:** Students entering this program must exhibit a safe driving record, be at least 19 years of age and comply with State and Federal licensing requirements. Instruction will include 200 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. Twenty percent or more of the experience will occur at night on both wet and dry roads.

In accordance with Rule 6A-10.040, FAC, the minimum basic-skills grade levels required for adult vocational students to complete this program are: Mathematics 9.0, Language 9.0, Reading 9.0. These grade-level numbers correspond to grade-equivalent scores obtained on one of the state-designated basic-skills examinations. If a student does not meet the basic-skills level required for completion of the program, remediation should be provided concurrently through Vocational Preparatory Instruction (VPI). Please refer to the Rule for exemptions.

Federal and state legislation requires the provision of accommodations for students with disabilities to meet individual needs and ensure equal access. Adult students with disabilities must self-identify and request such services. 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.

To be transferable statewide between institutions, this program/course must have been reviewed, and a "transfer value" assigned the curriculum content by the appropriate Statewide Course Numbering System discipline committee. This does not preclude institutions from developing specific program or course articulation agreements with each other.

This program may be offered in courses. Vocational credit shall be awarded to the student on a transcript in accordance with Section 1001.44 (3) (b) F.S.

The standard length of this program is 150 hours.

OCCUPATIONAL COMPLETION POINT - DATA CODE - A (SOC 53-3033)

IV. **INTENDED OUTCOMES:** After successfully completing the program, the student will be able to:

- 01.0 Describe vehicle safety and accident prevention procedures.
- 02.0 Comply with vehicle operating regulations.
- 03.0 Demonstrate proper cargo handling and documentation procedures.
- 04.0 Demonstrate pre-trip preparation procedures.
- 05.0 Demonstrate vehicle inspection procedures.
- 06.0 Perform vehicle maintenance and servicing procedures.
- 07.0 Demonstrate basic vehicle control procedures.
- 08.0 Demonstrate backing.
- 09.0 Demonstrate basic vehicle maneuvers.
- 10.0 Demonstrate road driving skills.
- 11.0 Describe hazardous driving skills.
- 12.0 Demonstrate appropriate communication skills.
- 13.0 Demonstrate appropriate math skills.
- 14.0 Demonstrate appropriate understanding of basic science.
- 15.0 Demonstrate employability skills.
- 16.0 Demonstrate an understanding of entrepreneurship.
- 17.0 Obtain a Florida Class B Commercial Vehicle Drivers License by passing written and performance tests.

Florida Department of Education
PROPOSED STUDENT PERFORMANCE STANDARDS
FOR A CLASS B LICENSE

Program Title: Commercial Class "B" Driving
Secondary Number:
Postsecondary Number: I490251

01.0 DESCRIBE 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 Explain 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.
- 01.05 Understand accident reporting requirements (company, state, federal).
- 01.06 Identify all information needed for accident reports to the State, the employer and the insurance company.
- 01.07 Complete an accident report.
- 01.08 Describe procedures for protecting the scene of an accident.
- 01.09 Identify types of hazardous cargoes.
- 01.10 Describe liability requirements.
- 01.11 Identify hazardous road conditions that are a potential threat to the safety of the truck driver.
- 01.12 Describe activities and characteristics of other road users that make them potentially dangerous.
- 01.13 Describe the potential consequences of excessive speed.
- 01.14 Describe the potential consequences of use of drugs or alcohol.
- 01.15 Describe and 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.
- 02.03 Keep accurate records required by hours of service regulations.
- 02.04 Perform 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.
- 02.07 Understand and comply with Florida Department of Transportation regulations.
- 02.08 Understand and comply with state and local traffic laws including restrictions on vehicle size and weight.
- 02.09 Identify permit requirements.

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 Mount placards when carrying hazardous materials.
 - 03.03 Describe procedure for use of common cargo handling equipment, including pallets, jacks, dollies, handtrucks, nets, slings, poles and other equipment.
 - 03.04 Identify categories of hazardous materials and the need for specialized training to handle hazardous materials.
 - 03.05 Identify hazardous materials documentation requirements.
 - 03.06 Verify nature, amount and condition of cargo on both pickup and delivery.
 - 03.07 Verify information on bill of lading and properly record and report discrepancies and damage to the cargo.
 - 03.08 Obtain appropriate signatures on delivery receipts and other required forms.
 - 03.09 Prepare a bill of loading.
 - 03.10 Verify door seal number against shipping document.
 - 03.11 Comply inspection station procedures.
- 04.0 DEMONSTRATE PRE-TRIP PREPARATION PROCEDURES--The student will be able to:
- 04.01 Check accident report packets for proper contents.
 - 04.02 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.
 - 04.03 Arrange a secure place for vehicle on layovers, especially when transporting hazardous materials.
 - 04.04 Demonstrate map reading skills.
 - 04.05 Estimate travel time and plan rest stops and layovers.
 - 04.06 Estimate fuel consumption and plan fuel stops.
- 05.0 DEMONSTRATE VEHICLE INSPECTION PROCEDURES--The student will be able to:
- 05.01 Check vehicle for registration and permits.
 - 05.02 Check general appearance and condition of vehicle.
 - 05.03 Check fuel, oil, water levels and automatic transmission fluid level, coolant, battery, and filters.
 - 05.04 Check signal lights, stoplights and running lights.
 - 05.05 Check tires, rims and suspension.
 - 05.06 Check horn, windshield wipers, mirrors and reflectors.
 - 05.07 Check emergency flares and fire extinguishers.
 - 05.08 Check instruments for normal readings.
 - 05.09 Check steering system, brake action and tractor protection valve.
 - 05.10 Check cargo blocking, bracing and tie down.
 - 05.11 Perform enroute inspections of mirrors, instrument panel, engine and power train, suspension system and brakes.
 - 05.12 Perform post-trip inspection of vehicle and all systems.
- 06.0 PERFORM VEHICLE MAINTENANCE AND SERVICING PROCEDURES--The student will be able to:
- 06.01 Describe function and operation of principle vehicle systems including, engine, engine auxiliary brake, drive train, coupling, suspension and electrical system.
 - 06.02 Check engine fuel, oil, coolant, battery and filters.
 - 06.03 Check tire air pressure.

- 06.04 Change wheels (with tires mounted) and check for proper tire and wheel mounting.
 - 06.05 Drain moisture from air brake supply reservoirs.
 - 06.06 Check brakes.
 - 06.07 Clean and repair lights.
 - 06.08 Check fuses and reset circuit breakers.
 - 06.09 Clean interior and exterior of vehicle.
 - 06.10 Check and replace mud/rain flaps.
- 07.0 DEMONSTRATE BASIC VEHICLE CONTROL PROCEDURES--The student will:
- 07.01 Place transmission in neutral before starting engine.
 - 07.02 Start, warm up and shut down the engine, according to the manufacturer's specifications.
 - 07.03 Build full pressure (90-120 PSI) in air tanks before starting.
 - 07.04 Test parking brake and service brake before starting.
 - 07.05 Coordinate use of accelerator and clutch to achieve smooth acceleration and avoid clutch abuse.
 - 07.06 Maintain proper engine RPM while driving.
 - 07.07 Properly modulate air brakes to bring vehicle to a smooth stop.
 - 07.08 Shift up and down through all gears.
 - 07.09 Double clutch and time shift for smooth and fuel efficient performance.
 - 07.10 Select proper gear for speed and highway conditions.
 - 07.11 Operate automatic and semiautomatic transmissions.
 - 07.12 Coordinate steering, braking and acceleration to take the vehicle through a desired path forward and backward in a straight line.
 - 07.13 Use clutch and gears to slow vehicle.
 - 07.14 Park the vehicle, set brakes and shut off the engine.
 - 07.15 Properly check/block wheels where and when required.
- 08.0 DEMONSTRATE BACKING SKILLS--The student will:
- 08.01 Check area before backing.
 - 08.02 Properly utilize guides and mirrors.
 - 08.03 Properly back in straight line and curved paths.
 - 08.04 Properly back into an alley dock.
 - 08.05 Properly parallel park.
 - 08.07 Judge side, rear and overhead clearances.
- 09.0 DEMONSTRATE BASIC VEHICLE MANEUVERS--The student will be able to:
- 09.01 Make a straight-in approach to an alley.
 - 09.02 Drive forward through an alley for 100 feet.
 - 09.03 Properly stop the unit within 12 inches of the end of the alley.
 - 09.04 Back 100 feet through an alley.
 - 09.05 Properly stop the unit within 12 inches of the end of the alley.
 - 09.06 Make proper straight in approach to multiple curves (serpentine).
 - 09.07 Drive forward through curves (serpentine) while keeping tires inside of line.
 - 09.08 Properly position unit for backing into a loading dock.
 - 09.09 Properly back to a dock.
 - 09.10 Properly stop unit within 12 inches of the dock without contacting dock.
 - 09.11 Properly enter a weighing platform.
- 10.0 DEMONSTRATE ROAD DRIVING SKILLS--The student will be able to:

- 10.01 Carefully enter traffic from parked position.
- 10.02 Use clutch and gears properly.
- 10.03 Proceed from a stopped position without rolling backward.
- 10.04 Use mirrors properly.
- 10.05 Signal intention to turn well in advance.
- 10.06 Get into proper lane well in advance of turn.
- 10.07 Check traffic conditions and turn only when intersection is clear.
- 10.08 Restrict traffic from passing on right when preparing to complete a right hand turn.
- 10.09 Complete a turn promptly and safely and not impede other traffic.
- 10.10 Select and shift to proper gear prior to beginning any turn.
- 10.11 Obey all traffic signals.
- 10.12 Plan stop in advance and adjust speed correctly.
- 10.13 Use brakes properly on grades.
- 10.14 Plan stop far enough in advance to avoid hard braking.
- 10.15 Stop clear of crosswalks.
- 10.16 Come to a complete stop at all stop signs.
- 10.17 Yield right of way at intersections having yield signs.
- 10.18 Check for cross traffic regardless of traffic signals.
- 10.19 Enter all intersections prepared to stop if necessary.
- 10.20 Stop a minimum of 15 feet but not more than 50 feet before railroad grade crossing if stop is necessary.
- 10.21 Select proper gear to avoid shifting gears on railroad grade crossing.
- 10.22 Determine sufficient space required for passing.
- 10.23 Pass only in safe locations.
- 10.24 Pass on two-lane highway.
- 10.25 Pass on four or more lane highway.
- 10.26 Signal lane changes before and after passing.
- 10.27 Pass only when appropriate to avoid impeding other traffic.
- 10.28 Return to right lane promptly, but only when safe to do so.
- 10.29 Observe speed limits.
- 10.30 Adjust speed properly to road, weather and traffic conditions.
- 10.31 Slow down in advance of curves, danger zones and intersections.
- 10.32 Maintain consistent speed where possible.
- 10.33 Yield right of way.
- 10.34 Allow faster traffic to pass.
- 10.35 Use horn only when necessary.
- 10.36 Park only in legally permissible parking areas.
- 10.37 Check instruments at regular intervals.
- 10.38 Maintain proper engine RPM while driving.
- 10.40 Determine minimum front-to-rear distances when following other vehicles.

11.0 DEMONSTRATE HAZARDOUS DRIVING SKILLS--The student will be able to:

- 11.01 Describe preparation for operation in cold weather, including removing snow and ice from windows, mirrors, brakes, lights, hand and toe holds, etc; when necessary.
- 11.02 Demonstrate proper procedure for expelling moisture from the air tanks after each trip.
- 11.03 Describe proper procedure for checking ice accumulation on brakes, slack adjuster, air hoses, electrical wiring during operation.

- 11.04 Describe operational adjustments necessary to maintain control in all weather conditions, including speed selection, braking and following distance.
 - 11.05 Describe procedures to check safe operation of brakes after driving through deep water.
 - 11.06 Perform proper use of windshield wipers, washers and defrosters to maintain visibility.
 - 11.07 Observe and evaluate changing road surface conditions.
 - 11.08 Demonstrate ability for recognizing conditions that produce low traction, including initial rainfall, ice, snow and mud.
 - 11.09 Describe procedures to avoid skidding.
 - 11.10 Describe procedures to avoid hydroplaning and describe the road and vehicle conditions that produce it.
 - 11.11 Describe procedures for mounting and dismounting tire chains.
 - 11.12 Describe procedures for extricating the vehicle from snow, sand and mud by maneuvering or towing.
 - 11.13 Demonstrate ability to adjust rate of change in speed and direction to accommodate road conditions to avoid skidding.
 - 11.14 Describe procedures required to coordinate acceleration and shifting to overcome the resistance of snow, sand and mud.
 - 11.15 Demonstrate ability to perform checks on brake adjustment prior to mountain driving.
 - 11.16 Describe procedures required to use right lane or special truck lane going up grades.
 - 11.17 Describe procedures required to place transmission in appropriate gear for engine braking before starting downgrade.
 - 11.18 Describe procedures required to use proper braking techniques and maintain proper engine braking before starting downgrades.
 - 11.19 Describe proper use of truck escape ramp when brakes fail on a downgrade.
 - 11.20 Describe procedure required for observing temperature gauge frequently when pulling heavy loads up long grades.
 - 11.21 Describe the effect of vehicle weight and speed upon braking and shifting ability on long downgrades.
 - 11.22 Identify the meaning and use of percent of grade signs.
 - 11.23 Demonstrate bringing the truck to a stop in the shortest possible distance while maintaining directional control on a dry surface.
 - 11.24 Describe procedures to make an evasive turn off the roadway and return to the roadway while maintaining directional control.
 - 11.25 Describe procedures to bring the vehicle to a stop in the event of a brake failure.
 - 11.27 Describe procedures to maintain control of the vehicle in the event of a blowout.
 - 11.28 Describe procedures to bring truck to a stop in the shortest possible distance while maintaining directional control when operating on a slippery surface.
 - 11.29 Describe procedures to recover from vehicle skids induced by snow, ice, water, oil, sand, wet leaves or other slippery surfaces.
 - 11.30 Describe procedures to countersteer out of a skid in a way that will regain directional control and not produce another skid.
 - 11.31 Describe procedure to operate brakes properly to provide maximum braking without loss of control.
- 12.0 DEMONSTRATE APPROPRIATE COMMUNICATION SKILLS--The student will be able to:

- 12.01 Write logical and understandable statements, or phrases, to accurately fill out forms/invoices commonly used in business and industry.
 - 12.02 Read and understand graphs, charts, and tables commonly used in this industry/occupation area.
 - 12.03 Read and follow written and oral instructions.
 - 12.04 Answer and ask questions coherently and concisely.
 - 12.05 Read critically by recognizing assumptions and implications and by evaluating ideas.
 - 12.06 Demonstrate appropriate telephone/communication skills.
- 13.0 DEMONSTRATE APPROPRIATE MATH SKILLS--The student will be able to:
- 13.01 Solve problems for volume, weight, area, circumference and perimeter measurements for rectangles, squares, and cylinders.
 - 13.02 Measure tolerance(s) on horizontal and vertical surfaces using millimeters, centimeters, feet and inches.
 - 13.03 Add, subtract, multiply and divide using fractions, decimals, and whole numbers.
 - 13.04 Determine the correct purchase price, to include sales tax for a materials list containing a minimum of six items.
 - 13.05 Demonstrate an understanding of federal, state and local taxes and their computation.
- 14.0 DEMONSTRATE APPROPRIATE UNDERSTANDING OF BASIC SCIENCE--The student will be able to:
- 14.01 Understand molecular action as a result of temperature extremes, chemical reaction, and moisture content.
 - 14.02 Draw conclusions or make inference from data.
 - 14.03 Identify health-related problems, which may result from exposure to work related chemicals and hazardous materials, and know the proper precautions required for handling such materials.
 - 14.04 Understand pressure measurement in terms of P.S.I., inches and mercury, and K.P.A.
- 15.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
- 15.01 Conduct a job search.
 - 15.02 Secure information about a job.
 - 15.03 Identify documents, which may be required when applying for a job interview.
 - 15.04 Complete a job application form correctly.
 - 15.05 Demonstrate competence in job interview techniques.
 - 15.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor or other employees.
 - 15.07 Identify and adopt acceptable work habits.
 - 15.08 Demonstrate knowledge of how to make appropriate job changes.
 - 15.09 Demonstrate acceptable employee health habits.
 - 15.10 Demonstrate knowledge of the "Right-to-Know Law".
- 16.0 DEMONSTRATE AN UNDERSTANDING OF ENTREPRENEURSHIP--The student will be able to:
- 16.01 Define entrepreneurship.
 - 16.02 Describe the importance of entrepreneurship to the American economy.

- 16.03 List the advantages and disadvantages of business ownership.
 - 16.04 Identify the risks involved in ownership of a business.
 - 16.05 Identify the necessary personal characteristics of a successful entrepreneur.
 - 16.06 Identify the business skills needed to operate a small business efficiently and effectively.
- 17.0 OBTAIN A FLORIDA COMMERCIAL VEHICLE DRIVERS LICENSE BY PASSING WRITTEN AND PERFORMANCE TEST--The student will be able to:
- 17.01 Demonstrate competence in performing basic commercial vehicle driving skills.
 - 17.02 Demonstrate understanding and knowledge of Florida Commercial Vehicle Driving Laws as required, to safely and legally operate a commercial vehicle.