

COMMERCIAL DRIVING LICENSE (CDL) 4
ACTIVITY COURSE CODES: 6321

PROGRAM DESCRIPTION: Commercial Driver's License Level 4 is designed to help the student become a professional driver. This program provides practical experience by including an effective balance of backing and highway/street lessons. The student will practice basic backing maneuvers to develop knowledge, skills, and attitudes that will make the student safe, efficient, and ready for employment. Students will practice coupling and uncoupling, straight line backing, right offset backing, and 90 degree alley dock backing on the range. Urban driving, shifting, highway travel, traffic patterns, and safe driving procedures are taught on the driving simulator, where available. Pre-trip and post-trip vehicle inspections will be performed on the yard. Students will have the opportunity to test for the Commercial Learner's Permit (CLP).

OBJECTIVE: Given the necessary equipment, materials, and instruction, students, on completion of the prescribed course of study, will be able to successfully accomplish the following core competencies.

COURSE CREDIT: 1 (120 hours), 2 (240 hours)
credit

RECOMMENDED PREREQUISITE: CDL 3 with a "C" or better, instructor recommendation, valid SC Driver's License Class D, and a physical exam

RESOURCES: See Materials and Resources

COMPUTER ACCESS: 1 computer per student

MAXIMUM ENROLLMENT: 16 per instructor

A. SHOP AND PERSONAL SAFETY

Passenger vehicle motorists know the academic subject matter, including safety as required for proficiency within their area. They will use this knowledge as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Review school safety policies and procedures.
2. Review classroom safety rules and procedures.
3. Review safety procedures for using equipment in the classroom/lab/field.
4. Identify major causes of work-related accidents in the trucking environment.
5. Demonstrate safety skills in a classroom/work environment.

B. STUDENT ORGANIZATIONS

Passenger vehicle motorists know the academic subject matter, including professional development, required for proficiency within their area. They will use this knowledge as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Identify the purpose and goals of a Career and Technology Student Organization (CTSO).
2. Explain how CTSOs are integral parts of specific clusters, majors, and/or courses.
3. Explain the benefits and responsibilities of being a member of a CTSO.
4. List leadership opportunities that are available to students through participation in CTSO conferences, competitions, community service, philanthropy, and other activities.
5. Explain how participation in CTSOs can promote lifelong benefits in other professional and civic organizations.

C. TECHNOLOGY KNOWLEDGE

Passenger vehicle motorists know the academic subject matter, including digital citizenship the ethical use of technology and as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation (e.g., keying speed).
2. Identify proper netiquette when using e-mail, social media, and other technologies for communication purposes.
3. Identify potential abuse and unethical uses of laptops, tablets, computers, and/or networks.
4. Explain the consequences of social, illegal, and unethical uses of technology (e.g., cyberbullying, piracy; illegal downloading; licensing infringement; inappropriate uses of software, hardware, and mobile devices in the work environment).
5. Discuss legal issues and the terms of use related to copyright laws, fair use laws, and ethics pertaining to downloading of images, photographs, documents, video, sounds, music, trademarks, Creative Commons, and other elements for personal use.
6. Describe ethical and legal practices of safeguarding the confidentiality of business- and personal-related information.
7. Describe possible threats to a laptop, tablet, computer, and/or network and methods of avoiding attacks.
8. Evaluate various solutions to common hardware and software problems.

D. PERSONAL QUALITIES AND EMPLOYABILITY SKILLS

Passenger vehicle motorists know the academic subject matter, including positive work practices and interpersonal skills, as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate creativity and innovation.
2. Demonstrate critical thinking and problem-solving skills.
3. Demonstrate initiative and self-direction.
4. Demonstrate integrity.
5. Demonstrate work ethic.
6. Demonstrate conflict resolution skills.
7. Demonstrate listening and speaking skills.
8. Demonstrate respect for diversity.
9. Demonstrate customer service orientation.
10. Demonstrate teamwork.

E. PROFESSIONAL KNOWLEDGE

Passenger vehicle motorists know the academic subject matter, including positive work practices and interpersonal skills, as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate global or “big picture” thinking.
2. Demonstrate career and life management skills and goal-making.
3. Demonstrate continuous learning and adaptability skills to changing job requirements.
4. Demonstrate time and resource management skills.
5. Demonstrates information literacy skills.
6. Demonstrates information security skills.
7. Demonstrates information technology skills.
8. Demonstrates knowledge and use of job-specific tools and technologies.
9. Demonstrate job-specific mathematics skills.
10. Demonstrates professionalism in the workplace.
11. Demonstrates reading and writing skills.
12. Demonstrates workplace safety.

F. READ AND INTERPRET CONTROL SYSTEMS

Pre-professional CDL drivers demonstrate knowledge of instrumentation and vehicle controls as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Identify and locate vehicular driving controls and the various monitoring devices (gauges, alarms, lights, etc.) required to operate the vehicle safely and efficiently.

2. Read instrument/gauges accurately each time
3. Operate controls and switches correctly
4. Interpret gauge and control readings and assimilate with other available information.

G. PERFORM VEHICLE INSPECTIONS

Pre-professional CDL drivers demonstrate knowledge of pre-during-post vehicle inspections as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Inspect and make a correct determination of the condition of various critical vehicle components, including instruments and controls; engine and drivetrain; chassis and suspension; steering system; braking systems; tires; wheels and rims; lighting and signaling system; coupling system; emergency equipment; and cargo securement device(s).
2. Perform inspections in a regular, systematic sequence that is accurate, uniform, and time efficient, and document in accordance with FMCSR.
3. Report an out-of-service vehicle found to be in an unsafe (for vehicle, drivers, and other highway users) operating condition, either prior to a trip or en route.
4. Conduct a 90-point pre-trip inspection.

H. EXERCISE BASIC CONTROL

Pre-professional CDL drivers demonstrate knowledge of basic vehicle controls as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Start, operate, and shut down CMV such that the driver scores an acceptable proficiency rating on an operational checklist for basic controls in areas such as turning the vehicle, centering the vehicle in lane, and backing.
2. Practice smooth and effective acceleration and stopping on a simulator, if available.
3. Position CMV to begin and complete turns in lane.
4. Demonstrate a 90-degree alley dock, parallel parking, offset backing, serpentine maneuver, and straight-line (100-foot) backing.
5. Demonstrate correct starting and stopping procedures.

I. EXECUTE SHIFTING

Pre-professional CDL drivers demonstrate knowledge of basic vehicle shift controls as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate how to match shifting to engine needs, speed, and safe operations for different types of road conditions.
2. Demonstrate how to shift smoothly to protect equipment and maximize fuel efficiency.
3. Demonstrate how to double clutch.

J. BACK AND DOCK CMV

Pre-professional CDL drivers demonstrate knowledge of backing and docking a CMV as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate how to back CMV within three feet of a dock while on range.
2. Demonstrate how to back and park in restricted areas in various positions and conditions, within appropriate tolerances.
3. Demonstrate how to back in straight and curved lines within appropriate tolerances.

K. COUPLE TRAILER

Pre-professional CDL drivers demonstrate knowledge of coupling a trailer as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate how to couple CMV safely in accordance with manufacturer's specifications.
2. Demonstrate how to complete coupling by checking secure connections to include air hoses and electrical cables.

L. UNCOUPLE TRAILER

Pre-professional CDL drivers demonstrate knowledge of uncoupling a trailer as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate how to uncouple a combination CMV safely in accordance with manufacturer's specifications.
2. Demonstrate how to properly secure the trailer, in various conditions, to prevent unsafe movement.
3. Demonstrate how to follow the correct sequence for disconnecting air hoses and electrical cables.

M. PERFORM VISUAL SEARCH

Pre-professional CDL drivers demonstrate knowledge and skills for completing visual searches as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate visual search techniques by pointing out important obstacles in various types of traffic and locations.

N. MANAGE AND ADJUST VEHICLE SPEED

Pre-professional CDL drivers demonstrate knowledge of managing and adjusting vehicle speed as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate how to adjust speed to conform with vehicle configuration and cargo; highway conditions; weather visibility, traffic, and other driving conditions.
2. Demonstrate how to maintain entrance and exit ramp speed 10 mph below posted speed, under ideal conditions.
3. Demonstrate how to drive at various speeds in response to highway conditions and necessary stopping distances.

O. VEHICLE SPACE MANAGEMENT

Pre-professional CDL drivers demonstrate knowledge of vehicle space management as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Select a lane offering the best mobility and least traffic interruption, in accordance with the law, to cause minimum interference to other vehicles.
2. Assure a safe gap before changing lanes, passing other vehicles, merging, and crossing or entering traffic; position vehicle correctly in the lane and relative to crosswalks as to minimize hazards to other highway users.
3. Position CMV appropriately before initiating and completing a turn so as to prevent other vehicles from passing on the wrong side and to minimize encroachment on other lanes.
4. Maintain a following distance appropriate to traffic, highway surface, visibility, speed, and vehicle weight.
5. Avoid structures having inadequate overhead clearance.
6. Note the position and movement of bicyclists and pedestrians.

P. CHECK AND MAINTAIN VEHICLE SYSTEMS AND COMPONENTS

Pre-professional CDL drivers demonstrate knowledge of maintaining vehicle systems as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Explain proper range of function for all primary vehicle systems.
2. Demonstrate how to check each component and vehicle systems.
3. Demonstrate how to note symptoms and problems.
4. Demonstrate how to complete a Vehicle Inspection Report in accordance with FMCSR.

Q. DIAGNOSE AND REPORT MALFUNCTIONS

Pre-professional CDL drivers demonstrate knowledge of reporting malfunctions as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Identify and describe symptoms.
2. Demonstrate how to report problems accurately and according to guidelines.
3. Demonstrate how to fix problems in accordance with company policy and FMCSR.

R. IDENTIFY POTENTIAL DRIVING HAZARDS AND PERFORM EMERGENCY MANEUVERS

Pre-professional CDL drivers demonstrate knowledge and skills of driving in emergencies as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Describe and identify highway conditions and other highway users that are a potential threat to the safety of the CMV.
2. Describe and identify causes of and techniques to recover from skids and jackknifing.
3. Demonstrate through proper speed and space management and proper acceleration, braking systems, and braking techniques to avoid a skid or jackknife.

S. IDENTIFY AND ADJUST TO DIFFICULT AND EXTREME DRIVING CONDITIONS

Pre-professional CDL drivers demonstrate knowledge and skills of handling difficult and extreme driving conditions as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Compare and contrast the correct adjustments for the following conditions:
 - Night Operations
 - Cold weather operation
 - Hot weather operations
 - Mountainous terrain
 - Wet conditions
 - Windy conditions
 - Construction zones
 - Railroad crossings

T. HANDLE AND DOCUMENT CARGO

Pre-professional CDL drivers demonstrate knowledge of handling and documenting cargo as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Verify nature, amount, and condition of cargo on both pick-up and delivery.
2. Verify load is distributed and contained correctly to meet legal and safety requirements.
3. Verify information on bill of lading and properly record and report discrepancies and damage to the cargo.
4. Prepare a manifest properly.
5. Move heavy loads safely, as verified by a performance test.

U. ADDRESS ACCIDENT SCENES AND REPORTING PROCEDURES

Pre-professional CDL drivers demonstrate knowledge and procedures for reporting accidents as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate how to guard the scene of an accident to prevent further injury or damage, and obtain assistance.
2. Describe how to obtain all information needed for accident reports to law enforcement, employer, and the insurance company.
3. Render assistance to any injured parties, including first aid, if properly trained.
4. Demonstrate how to properly use a fire extinguisher.

V. ADDRESS ENVIRONMENTAL ISSUES

Pre-professional CDL drivers demonstrate knowledge of environmental issues as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Describe environmental issues affecting CMV drivers.
2. Describe the various idle requirements and adjustments required to comply with state and federal regulations.

W. PLAN TRIPS/MAKE APPROPRIATE DECISIONS

Pre-professional CDL drivers demonstrate knowledge of trip planning as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Demonstrate how to read a road map, and select the most effective and authorized routes for time, budget, load, and conditions.
2. Describe how to obtain necessary/required permits.
3. Estimate time of arrival correctly.

4. Identify fuel stops.
5. Calculate and budget trip expenses.

X. USE EFFECTIVE COMMUNICATIONS

Pre-professional CDL drivers demonstrate knowledge of effective communication skills with their employer, customers, and the general public as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Convey clear intentions in all communications, e.g., dispatchers, other CMV drivers, customers, and employers.
2. Demonstrate presentation of a professional image to the general public.

Y. MANAGE PERSONAL RESOURCES WHILE ON THE ROAD

Pre-professional CDL drivers demonstrate knowledge of how to maintain driver health as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Develop and implement strategies to effectively manage personal issues:
 - Fatigue
 - Diet
 - Exercise
 - Personal hygiene
 - Stress
 - Personal finances
 - Lifestyle changes

Z. RECORD AND MAINTAIN HOURS OF SERVICE REQUIREMENTS

Pre-professional CDL drivers demonstrate knowledge of hours of service requirements as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Describe how to comply with hours of service requirements.
2. Maintain a complete, legible, and accurate driver's daily log and logbook.
3. Demonstrate how to perform all necessary calculations correctly to the closest quarter (1/4) hour.
4. Demonstrate the ability to enter data into an electronic on-board recording system.

AA. CAREER DEVELOPMENT

Pre-professional CDL drivers know career opportunities as it relates to their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Examine careers that require various driving license certifications or licensures.
2. Compare the estimated salaries, benefits, job outlook, education, and working conditions, and skills needed to perform those jobs.
3. Develop a pre-professional resume'.
4. Complete the SCDMV Class A permit practice test.

[Course Academic Standards and Indicators](#)

[Additional Course Materials/Resources/Equipment Listing](#)