

COMMERICAL DRIVING LICENSE (CDL) 2

COURSE CODE: 6319

PROGRAM DESCRIPTION: Commercial Driver's License Level 2 will continue learning the basic fundamentals of vehicle operations. Students will be introduced to the Occupational Safety and Health Administration (OSHA) standards as they pertain to a commercial motor vehicle (CMV). Students also will learn the history of trucking, preparing for CDL requirements for certification, industry compliance, safety and accountability, transportation technology, and regulatory agencies that govern the transportation industry and licensures, as well as perform vehicle inspections.

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)

RECOMMENDED PREREQUISITE: CDL 1 with a "C" better, instructor recommendation, and a valid SC Driver's License Class D

RESOURCES: See Materials and Resources

COMPUTER ACCESS: 1 computer per student

MAXIMUM ENROLLMENT: 16 per instructor

A. SHOP AND PERSONAL SAFETY

Pre-professional CDL drivers 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

Pre-professional CDL drivers 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

Pre-professional CDL drivers 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

Pre-professional CDL drivers 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

Pre-professional CDL drivers 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. INTRODUCTION TO OSHA

Pre-professional CDL drivers demonstrate knowledge and skills of Occupational Safety and Health Administration safety requirements associated with a commercial vehicle as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Explain the history of OSHA.
2. Research who does OSHA cover and who is not covered.
3. Describe a worker’s rights and “Right to Know.”
4. Describe employer Responsibilities under OSHA.
5. Describe the importance of Personal Protective Equipment (PPE) standards.

G. FLAMMABLE & COMBUSTIBLE LIQUIDS

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

1. Describe the two primary hazards associated with flammable and combustible liquids.
2. Research and define flash point, flammable liquid, and combustible liquid.
3. Research and list four potential sources of ignition for flammable and combustible liquids.

H. HAND & POWER TOOLS

Pre-professional CDL drivers demonstrate appropriate knowledge of hand and power tools as needed in their role. The following accountability criteria are considered essential for students in the CDL program of study.

1. Research and list basic hand and power tool safety rules.
2. Demonstrate how to safely use hand tools.
3. Demonstrate how to safely use power tools.
4. Demonstrate how to properly use jacks.

I. MATERIAL HANDLING

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

1. Describe and list the three main injuries that occur during material handling, storage, use, and disposal.
2. Demonstrate proper lifting techniques when performing manual lifting.
3. Explain at least three ways to eliminate hazards that may lead to injury when using forklifts or cranes to handle materials.

J. WALKING & WORKING SURFACES

Pre-professional CDL drivers demonstrate appropriate knowledge and skills of maintaining walking and working surfaces as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Research and define the terms: floor hole, floor opening, wall opening, standard railing, and standard toe board.
2. Describe at least 5 requirements to consider in order to avoid walking/working surface hazards related to floors, walls, holes, stairways, and platforms.

K. DISASTER PREPAREDNESS

Pre-professional CDL drivers understand disaster preparedness as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe and list types of disasters.
2. Describe and list types of terrorist threats.
3. Describe some of the basic emergency supplies that should be kept on hand in your vehicle.

L. SAFETY & HEALTH PROGRAMS

Pre-professional CDL drivers demonstrate appropriate knowledge and skills for maintaining a safe and healthy workplace as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe and implement elements of an effective safety and health program.
2. Describe methods to prevent and control workplace hazards.
3. Research and list elements of hazard prevention.

M. FALL HAZARDS

Pre-professional CDL drivers demonstrate appropriate knowledge and skills for preventing injuries from falls as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe OSHA's regulations that protect workers on elevated surfaces.
2. Research and list primary fall protection methods.
 - Explain how guardrails help prevent falls.
 - Explain guidelines for using safety nets.
 - Describe the components of personal fall arrest systems.
 - Research and present fall prevention as a driver.

N. PERSONAL PROTECTIVE EQUIPMENT

Pre-professional CDL drivers are aware of the impact of the importance of personal protective equipment (PPE) as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Identify the employers' responsibility with regard to personal protective equipment (PPE) at work.
2. Research the different types of PPE used to protect the eyes, face, head, feet, hands, arms, respiratory tract, and hearing.

3. Describe hazards that may require the use of personal protective equipment.
4. Demonstrate the proper way to use and wear PPE.

O. BLOODBORNE PATHOGENS

Pre-professional CDL drivers use appropriate knowledge and skills to ensure safe handling of blood borne pathogen procedures as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe what a blood borne pathogen is and it may be transmitted.
2. Describe the differences between HIV and HBV.
3. Demonstrate how to protect yourself against blood borne pathogens.

P. HAZARD COMMUNICATIONS

Pre-professional CDL drivers use appropriate knowledge and skills about hazardous material handling and labeling as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe primary points of exposure for chemicals.
2. Describe the purpose of a Safety Data Sheet (SDS) and what the sections mean.
3. Demonstrate how to comply with a SDS.
4. Demonstrate the ability to interpret the color coding system pertaining to hazard material labels.

Q. ERGONOMICS

Pre-professional CDL drivers understand the impact of ergonomics as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe and identify risk factors, signs, and symptoms that may result in musculoskeletal disorders.
2. Demonstrate methods to reduce risk factors.

R. INTRODUCTION TO TRUCKING

Pre-professional CDL drivers describe the history of trucking and regulating agencies as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Explain a brief history of the North American trucking industry from its beginning to present.
2. Describe how the U.S. trucking industry is regulated by federal and state agencies.
3. Compare and contrast different commercial vehicle classes.

S. COMMERCIAL DRIVER’S LICENSE

Pre-professional CDL drivers need to understand the importance of the commercial driver’s license as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe the requirements for passing the U.S. Commercial Learner's Permit (CLP) and Commercial Driver’s License (CDL) exams.
2. Describe why every licensed professional driver should be proficient in skills tested as requirements for passing the CDL.
3. Describe and understand the efforts made by the Federal Motor Carriers Safety Administration to help professional drivers remain safe on U.S. highways.
5. Describe penalties for violations of CDL guidelines.

T. COMPLIANCE, SAFETY, ACCOUNTABILITY (CSA)

Pre-professional CDL drivers need to understand what CSA is and how it operates as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe and understand the meaning and purpose of CSA.
2. Research CSA requirements and the responsibilities of a professional truck driver.
3. Describe the CSA’s measurement tools and how to track a driver’s progress.

U. TRANSPORTATION TECHNOLOGY

Pre-professional CDL drivers need to understand what transportation technology is available as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe technology that is being used in today’s trucking transportation industry.
2. Describe the applications of technology used and their benefits.
3. Describe and list additional technology you would purchase to assist you in your goal of becoming a professional truck driver.

V. VEHICLE INSPECTIONS

Pre-professional CDL drivers need to understand how to conduct vehicle inspections as needed in their role. The following accountability criteria are considered essential for students preparing for the CDL program of study.

1. Describe and demonstrate a systematic sequence to use in a thorough and complete pre-trip inspection.
2. Recognize damaged, loose or missing parts, system leaks, and other problems.
3. Identify the critical components of CMVs, including instruments and controls.

4. Explain the importance of correcting malfunctions before beginning each trip.
5. Demonstrate and explain the steps for en-route inspections and perform a thorough post-trip inspection.
6. Demonstrate the ability to accurately complete a Driver's Vehicle Inspection Report (DVIR).

W. CAREER DEVELOPMENT

Pre-professional student CDL drivers discover jobs and careers that are related to transportation at the CMV level. The following accountability criteria are considered essential for students in the pre-professional 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'.

[Course Academic Standards and Indicators](#)

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