

CHC 202 Commercial Truck Driving II

Course Information

Credits	8
Campus	Washburn Institute of Technology
Address	5724 SW Huntoon
City/State/Zip	Topeka, Kansas 66604
Office Fax	785-273-7080

Description

The curriculum standards of this course incorporate the curricular recommendations of the U. S. Department of Transportation's Federal Highway Administration's former Office of Motor Carriers Model Curriculum. The curriculum standards represent the minimum training elements that a commercial motor vehicle driver-training course should contain, and against which any such course may be judged. Taken together with CHC 201 Commercial Truck Driving I, the curriculum standards represent the minimum curriculum judged by the Professional Truck Driver Institute, Inc. (PTDI) to be necessary in order to provide training in how to operate a Commercial Motor Vehicle.

Textbooks

Student Learning Outcomes:

- A. Communicate effectively
- B. Integrate technology
- C. Learn effectively
- D. Demonstrate cooperative teamwork skills
- E. Apply safety in the workplace
- F. Think critically and creatively
- G. Demonstrate responsible work ethics

Competencies

Identify Potential Driving Hazards and Perform Emergency Maneuvers (Performance Skill #13)

1. Perceive immediately a potential threat from visible characteristics and actions of other highway users, highway conditions, and the environment.
2. Match and initiate prompt defensive or evasive action.
3. Use proper evasive steering techniques.
4. Respond appropriately to highway changes.
5. Identify situations where skids and jackknifing are likely to occur.
6. Utilize braking systems to stop the vehicle in the shortest possible distance while maintaining control.
7. Describe how to steer out of a skid in a way that will regain directional control without producing another skid.
8. Determine and maintain safe speed for slippery surface conditions.
9. Describe proper steering and stopping in the event of an emergency.

Identify and Adjust to Difficult and Extreme Driving Conditions (Performance Skill #14)

Night Operations

1. Judge and adjust speed, distances, and separation under nighttime conditions.
2. Demonstrate heightened scanning technique for night.
3. Use high beams legally; dim headlights in accord with law and safety.
4. Respond safely to glare of other vehicles.
5. Manage driver's fatigue.
6. Use proper signaling techniques.

Cold Weather Operation

1. Prepare for operation in cold weather, including removing snow and ice from windows, mirrors, brakes, lights, hand holds, and steps.
2. Inspect for cold weather operation by paying special attention to coolant level and mixture, heater, defrosters, wipers, washers, tire tread, brakes, lights, reflectors, wiring system, hoses, fuel, exhaust system, and fifth wheel.
3. Make sure that moisture is expelled from the air tanks after each trip.
4. Check weather information before and during trips and adjust plan accordingly.
5. Check for snow and ice accumulation (and remove it) on all surfaces, as well as brakes, air hoses, electrical wiring, lights and radiator shutters during operation. This includes trailer components and surfaces.
6. Utilize cold weather engine starting procedures.
7. Observe highway surface for changes in conditions.
8. Adjust rate of change in speed and direction to highway conditions to avoid skidding.
9. Coordinate acceleration and shifting to overcome the resistance of snow, sand, and mud.
10. Carry additional food and clothing to deal with weather delays.

Hot Weather:

1. Check tires, lubrication, levels and operation of cooling system, fan belts, fans and hoses, and check the radiator for debris.
2. Carry an ample supply of drinking water.
3. Inspect tires frequently.

Mountainous Terrain:

1. Check brake adjustment prior to mountain driving.
2. Use right lane or designated truck lanes.
3. Place transmission in correct gear for engine speed on downgrade.
4. Use proper braking technique and maintain proper engine speed on downgrades.
5. Explain or demonstrate operation of special speed reduction devices properly; e.g., engine brakes.
6. Monitor brakes for overheating on downgrades.
7. If brakes fail on a downgrade, use truck escape ramp, if available.
8. Observe temperature gauge frequently when pulling heavy loads up long grades.
9. Use 4-way flashers in accordance with local laws.

Wet Conditions

1. Operate CMV within the capabilities and limitations of equipment.
2. Check anti-lock brakes stability control.
3. Adjust speed for conditions.
4. Select proper gear for highway conditions and surface.
5. Maintain increased following distance.
6. Adjust operation of vehicle to weather conditions, including speed selection, braking, direction changes, and following distance to maintain control and avoid jackknifing.
7. Assure safe operation of brakes after driving through deep water.
8. Use windshield wipers, washers and defrosters to maintain visibility.

Windy Conditions

1. Operate CMV within the capabilities and limitations of the equipment.
2. Judge and adjust speed and following distance for conditions.
3. Adjust steering to compensate for side forces generated by wind.
4. Scan for unusual debris on highway.
5. Maintain increased following distance.

Construction Zones

1. Maintain adequate following distance.
2. Adjust speed for conditions or as directed when entering, exiting, or driving within the construction zone.
3. Perform visual search for vehicles approaching from rear, particularly on right side.
4. Observe and adjust to pavement surface differences.
5. Observe and identifies right of way for pedestrians and construction equipment.

Passive (Unmarked or Uncontrolled) Railroad Crossings

1. Stop when required at proper distance from crossing.
2. Maintain speed without shifting or stopping at crossing.
3. Do not cross until ample room is available for CMV to clear.
4. Do not stop until CMV has cleared crossing.
5. Approach crossing with caution, turn off communication devices and roll window down to listen for oncoming traffic and warnings.
6. Insure there is ample undercarriage clearance before crossing.
7. Obey railroad signal or direction at crossing.

Handle and Document Cargo (Performance Skill #15)

1. Prepare manifest, as required.
2. Verify cargo types, nature, amount, and condition on pick-up and delivery.
3. Verify seals, if used.
4. Cover cargo, as necessary.
5. Obtain appropriate signatures.
6. Verify information on bill of lading and properly record/report discrepancies and damage.
7. Verify that load distribution on trailer fits within regulations.
8. Verify that placards match load and meet regulations; correct placards, as necessary.
9. Operate common types of cargo handling equipment safely.
10. Select proper sizes of chain, cable, nylon webbing, steel strapping, or rope.
11. Secure load in accordance with applicable regulatory requirements.
12. Stop and inspect cargo, according to regulations.
13. Demonstrate proper lifting techniques required to safely load and unload cargo.

Address Accident Scenes and Reporting Procedures (Performance Skill #16)

1. Stop and park CMV appropriately in safe location.
2. Notify emergency responders; place warning devices as required.
3. Provide aid for injured individuals if properly trained and certified.
4. Cooperate with first responders or emergency personnel.
5. Operate fire extinguishers correctly, if required.
6. Protect self from blood-borne pathogens.
7. Direct traffic, if necessary, until emergency personnel arrive.
8. Obtain information for accident reporting, including photographs in accordance with company policy.
9. Discuss accident details only with appropriate officials.
10. If hazardous materials are involved, call appropriate authorities and secure the area.
11. Stay at scene until emergency personnel and company grant permission to leave.
12. Notify carrier in accordance with company policy.

Address Environmental Issues (Performance Skill #17)

1. Check hoses, couplings, and other components that may contribute to environmental issues.
2. Monitor idle time and make appropriate adjustments.
3. Check regularly for signs of leaks.
4. Fuel carefully to avoid spills.
5. Recognize and report environmental issues.

Plan Trips/Make Appropriate Decisions (Performance Skill #18)

1. Plan a route from one point to another that is optimal in terms of travel time, fuel costs, potential hazards, and federal, state/provincial, and local travel restrictions.
2. Arrange to secure permits required by the nature of the vehicle, its cargo, and route to be traveled.
3. Arrange a secure place for vehicle on layovers, especially when transporting hazardous materials.
4. Calculate miles, fuel use, stops and expenses. Obtain funding for expenses.
5. Interpret maps/program and Global Positioning Systems.
6. Estimate travel time, plan rest stops and layovers to ensure adequate rest to comply with hours of service regulations (where applicable).
7. Document expenses according to policy.

Use Effective Communications (Performance Skill #19)

In-Vehicle

1. Signal intentions such as lane changes, hazards, and backing up.
2. Use horn, headlights, and other lights appropriately.
3. Establish and use eye contact with drivers and pedestrians as a warning.
4. Avoid making decisions only on basis of another's signal.
5. Avoid directing traffic.
6. Use on-board and personal communication devices only when vehicle is parked.

Personal Interaction

1. Use on-board and personal communication devices only when vehicle is parked.
2. Communicate clearly, professionally and effectively with company, customers, and general public.
3. Present a professional image while in control of a CMV.

Manage Personal Resources While on the Road (Performance Skill #20)

1. Identify elements of fatigue. Employ control strategies.
2. Identify characteristics of stress, and adopt stress reducing techniques.
3. Follow healthy diet and recreation while on the road.
4. Establish a good exercise program while on the road.
5. Make safe decisions about where to stop and stay.
6. Practice good personal hygiene.
7. Communicate with family and/or support system frequently or as needed.

Record and Maintain Hours of Service Requirements (Performance Skill #21)

1. Interpret and demonstrate compliance with hours of service regulations.
2. Record time accurately.
3. Perform calculations necessary to recap and apply daily totals to the hours of service regulations.
4. Determine driving hours remaining on a particular day or tour of duty.
5. Understand and maintain support documents in accordance with regulatory requirements.

Guidelines for Success

Assessment Plan

Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution's technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

Grading Rationale

Student progress is evaluated by means that include, but not limited to: exams (60%), written assignments/labs (30%), and attendance/class participation (10%).

Grading Scale

92-100% A

84-91% B

76-83% C

68-75% D

0-67% F

Attendance

Effective learning cannot take place unless you are in class. Students are expected to attend every class period and will have daily professionalism points deducted if they are tardy or if they do not attend. As in any profession students are expected to contact the instructor if they are unable to attend due to sudden illness or a family emergency. If students need to miss class for other reasons, they should discuss the event with the instructor and make arrangements to make up the work ahead of time.

Disability

The Americans with Disabilities Act (ADA) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Institute of Technology for persons with disabilities. Qualified students with disabilities **MUST** self-identify by completing an application. In addition students must provide appropriate medical documentation to the ADA coordinator to be eligible for accommodations. New requests for accommodations should be submitted at least two months or more prior to the date the accommodations are needed. However, please contact the ADA office as soon as a need may arise. Depending on the accommodation request, four to eight weeks lead time may be needed for timely and effective provision of accommodations.

The ADA Office coordinates and assists in arranging accommodations it deems appropriate for eligible students on a case-by-case basis. If you are a student with a disability that may substantially limit your ability to participate in any of our classes and you believe that you will need accommodations, it is your responsibility to contact:

ADA Coordinator

Phone: 785-228-6356

Email: gloria.christian@washburn.edu

It is the policy of Washburn Institute of Technology to assure equal employment and educational opportunity to qualified individuals without regard to race, color, sex, age, ancestry, marital or parental status, disability, religion, national origin, or sexual orientation/gender identity. Contact Pam Foster, Morgan Hall, Room Washburn University (785-670-1509), and pam.fosterel@washburn.edu.