

HIBBING COMMUNITY COLLEGE COURSE OUTLINE

COURSE NUMBER & TITLE: CDL 1515: Behind the Wheel Driving

CREDITS: 2 (Lec 0 / Lab 2)

PREREQUISITES: CDL permit, DOT physical, Risk Management Approval

CATALOG DESCRIPTION: Behind the wheel training provides students the hands-on experience needed to operate a semi-truck and trailer. Students will gain behind the wheel experience; drive various routes and in multiple conditions.

OUTLINE OF MAJOR CONTENT AREAS:

- I. Physical Vehicle Operation
- II. Shifting Patterns and Procedures
- III. Basic Backing Maneuvers; Safety and Rules
- IV. Coupling Sequence and Uncoupling Procedure
- V. Recognizing and Reporting Malfunctions
- VI. The Importance of Space Management
- VII. Focusing on the Road Ahead
 - a. Visual Search
 - b. Speed Management
 - c. Night Driving
 - d. Extreme Driving Conditions
 - e. Skid Control
 - f. Recognizing Hazardous Situations
 - g. Railroad Crossings
 - h. Emergency Maneuvers
 - i. Accident Procedures
- VII. Operate Special and Common Rigs
- VIII. Handle Cargo and Cargo Documentation

COURSE GOALS/OBJECTIVES/OUTCOMES:

Students will

1. obey the rules and regulations under which the industry operates.
2. perform a routine for a thorough, complete pre-trip and post-trip inspection.
3. mastery of engine controls, primary and secondary vehicle controls.
4. start, warm up, cool down and shut off engines.
5. put a rig in motion, stop a rig, back up, and make turns.
6. execute gear shift patterns for several types of transmissions.
7. perform procedures for backing and parking.

8. safely and efficiently couple a tractor with a trailer and the controls to use when coupling or uncoupling a rig.
9. slide the fifth wheel of a tractor with a trailer attached.
10. use good communication in order to help avoid collisions and traffic violations.
11. control your space on the roadway.
12. perform a standard visual search while driving if necessary.
13. be proficient in speed and rig control, and fuel economy.
14. recognize conditions such as rain, snow, ice, and mud that reduce traction.
15. utilize vehicle control factors including traction, wheel load, and the force of motion when necessary.
16. identify common highway threats to safety.
17. practice driver responsibility for handling cargo and documents in order to be compliant with the law.
18. develop and execute trip routes using maps, obey road restriction specifics and special requirements.
19. keep a log book of routes and trips throughout semester.

MNTC GOALS AND COMPETENCIES MET:

N/A

HCC COMPETENCIES MET:

Thinking Creatively and Critically

Work Productively and Cooperatively

STUDENT CONTRIBUTIONS:

Students are expected to attend class sessions, and be in an acceptable physical and mental state necessary to safely and legally operate vehicles. Under the influence of no medication or drug, either prescribed by a physician or not. Have adequate rest so reflexes and response time are not compromised. Participate in activities and discussions, listen to and follow directions, complete assignments in a timely fashion, request assistance when needed, and contribute to a productive learning environment. Students should expect to spend two to four hours per week preparing for class.

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

SPECIAL INFORMATION: (SPECIAL FEES, DIRECTIVES ON HAZARDOUS MATERIALS):

AASC APPROVAL DATE: October 14, 2014

REVIEW DATE: October 2019

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