# Commercial Driver License Class B

**Course Design**

**2006-2007**

## Course Information

<table>
<thead>
<tr>
<th><strong>Organization</strong></th>
<th>Eastern Arizona College</th>
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<tbody>
<tr>
<td><strong>Division</strong></td>
<td>Industrial Technology Education</td>
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<tr>
<td><strong>Course Number</strong></td>
<td>TEC 155</td>
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<tr>
<td><strong>Title</strong></td>
<td>Commercial Driver License Class B</td>
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<tr>
<td><strong>Credits</strong></td>
<td>5</td>
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<tr>
<td><strong>Developed by</strong></td>
<td>Stephen Cullen, Ph.D.</td>
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<tr>
<td><strong>Lecture/Lab Ratio</strong></td>
<td>3 Lecture/4 Lab</td>
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<tr>
<td><strong>Transfer Status</strong></td>
<td>Non-transferable</td>
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<tr>
<td><strong>Activity Course</strong></td>
<td>No</td>
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<tr>
<td><strong>CIP Code</strong></td>
<td>49.0205</td>
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<tr>
<td><strong>Assessment Mode</strong></td>
<td>Pre/Post Test (35 Questions/35 Points)</td>
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<tr>
<td><strong>Semester Taught</strong></td>
<td>Upon Request</td>
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<tr>
<td><strong>GE Category</strong></td>
<td>None</td>
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<tr>
<td><strong>Separate Lab</strong></td>
<td>No</td>
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<tr>
<td><strong>Awareness Course</strong></td>
<td>No</td>
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<tr>
<td><strong>Intensive Writing Course</strong></td>
<td>No</td>
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## Prerequisites

Must be at least 18 years of age at the start of the class; Present proof of valid motor vehicle operator's license; Present proof of complete drug screen indicating negative results; Physically qualified as outlined by Arizona Department of Transportation; Must have social security card; Must present proof that there have been no DUI convictions for the past five years; Must present proof of satisfactory driving record with no more than three moving violations during the past three years. Submit documentation of the prerequisites with the completed Proof of Prerequisites Form to the Records and Registration Office.

## Educational Value

This course is designed for students who wish to successfully complete the State of Arizona Commercial Driver License Class B written and driving examination.

## Description

This course is a comprehensive study of basic theories, applied laws, and practices related to driving a Class B commercial vehicle. The student who successfully completes this course will receive a CDL Class B Learner's permit. This course does not include the Hazardous Materials Endorsement.
Supplies
Safety glasses
Hard hat
Steel-toed Boots
Notebook & pen
Access to computer and internet

Competencies and Performance Standards

1. Identify the procedure for conducting a Class B vehicle pre-trip inspection.
   
   **Performance Standards**
   
   *Student will demonstrate competence by*
   
   - describing why vehicle inspections are necessary.
   - listing the critical items to check for pretrip and during trip inspections.
   - listing the seven step test for CDL pretrip inspections.
   - identifying the minimum tread depth for tires.
   - listing the emergency equipment required for Class B vehicles.
   - outlining inspection areas to check for suspension systems defects.
   - outlining the procedure for after-trip inspections and reports.

   *Student performance will be successful when he/she*
   
   - recites the fact that safety is the most important reason for inspecting vehicles and that federal and state laws require that drivers inspect their vehicles.
   - in writing lists the critical items to check during trip when stopped including tires, brakes, lights/reflectors, brakes/electrical connections, trailer coupling devices, and cargo securing devices.
   - in writing outlines the minimum tread depth for tires including 4/32 inch (4mm) tread depth in every major groove on front tires and 2/32 inch (2 mm) on other tires. No fabric should show through the tread or sidewall.
   - in writing lists the basic safety equipment including fire extinguisher(s), spare electrical fuses (unless equipped with circuit breakers), warning devices for parked vehicles, and belts for driver/passenger.
   - in writing lists areas of inspection for suspension defects including spring hangers, leaves, shock absorbers, torque rods, u-bolts, air suspension systems, and frame members.
   - in writing outlines the after-trip inspection procedure, including checking gauges, air pressure, ammeter/voltmeter, mirrors, tires, cargo, and cargo covers.

2. Identify steps and procedure for transporting cargo safely.

   **Performance Standards**

   *Student will demonstrate competence by*

   - outlining how to properly block cargo.
- determining legal weight limits of a predetermined load.
- determining Gross Vehicle Weight (GVW), Gross Combination Weight (GCW), Gross Vehicle Weight Rating (GVWR), axle weight, tire load, and coupling device capacity.
- assessing header broad and side boards.
- determining if canvas or tarp is needed.
- determining if cargo is oversized and if flags, signs, lamps or reflectors are needed.

**Student performance will be successful when he/she**
- with 100% accuracy in writing determines the following: Gross Vehicle Weight (GVW), Gross Combination Weight (GCW), Gross Vehicle Weight Rating (GVWR), axle weight, tire load, and coupling device capacity.
- with 100% accuracy, determines the legal weight limits of a predetermined load.
- demonstrates how to safely block, brace, tie, or chain cargo for transport.
- in writing outlines the most common signs of wear on header or side boards.
- in writing outlines the indicators of cargo for using canvas or tarp.
- in writing lists the criteria for assessing if the cargo is oversized and implements to be used to note sized cargo.

3. **Develop skills for the basic and safe control of the Class B vehicle.**

**Performance Standards**

*Student will demonstrate competence by*
- operating the commercial vehicle in a safe manner.
- explaining the importance and methods to manage space.
- describing the safe procedure used in emergency situations.
- reciting procedures for the placement of warning devices for stalled vehicles.
- using proper driving communication.
- gaining knowledge of driver, roadway and night driving factors that impact the safe operations of a vehicle.

*Student performance will be successful when he/she*
- demonstrates proper method and technique for accelerating vehicle.
- demonstrates operating the vehicle with proper spacing in order to properly stop and turn.
- demonstrates the proper communications needed for signaling lane change, slowing down, trouble ahead, and tight turns.
- demonstrates safely backing up the vehicle using mirrors.
- demonstrates proper technique for steering vehicle.
- demonstrates proper technique for shifting gears.
- demonstrates proper technique for braking and stopping the vehicle.
- outlines in writing the procedure used for traffic and vehicle emergencies.
- demonstrates the proper driving techniques when addressing traffic and vehicle emergencies.
- demonstrates the proper technique for securing and marking the area where an accident
occurs and for caring for the injured.
  o demonstrates the proper placement of warning devices for stalled vehicles.
  o in writing lists drivers factors that adversely impact safe operations of a vehicle including vision, fatigue, and lack of alertness.
  o in writing lists roadway factors that impact the safe operations of a vehicle including glare, poor lighting, headlights, slippery surfaces, hydroplaning, weather conditions, night driving, and drunk drivers.
  o in writing outlines the hazards of night driving.

**Types of Instruction**
Lecture and driving demonstration by student

**Grading Information**

**Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>100-90%</td>
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<tr>
<td>B</td>
<td>89-80%</td>
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<tr>
<td>C</td>
<td>70-79%</td>
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<tr>
<td>D</td>
<td>69-60%</td>
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<tr>
<td>F</td>
<td>Below 60%</td>
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Note: Students must demonstrate proficiency on all driving demonstrations.