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Industrial Education Safety (IES) 1113 California Commercial Driver License Permit Preparation (1.75 Units)

[formerly Petroleum Technology 94P]

Prerequisite: None

Total Hours: 24 hours lecture; 16 hours lab (40 hours total)

Catalog Description: This lecture/practical course is designed to prepare for taking the California Class A/B written driving test, thereby enabling the successful examinee to obtain a California Class A/B learner permit. This course is offered on a Pass/No Pass basis with the option to receive a letter grade.

Type of Class/Course: Degree Credit

Textbook: Department of Motor Vehicles. *California Commercial Driver Handbook*. Sacramento, CA: State of California, 2005. Print.

Additional Required Materials: None

Course Objectives:

By the end of the course, a successful student will be able to

1. understand and make informed decisions about basic road and driving safety conditions normally encountered by commercial drivers,
2. understand the necessary regulatory and legal information to pass the written tests for the General Knowledge, Air Brakes, Passenger, Doubles and Triples, and Hazardous Materials endorsements,
3. perform the Department of Motor Vehicles (DMV) programmed Pre-trip Vehicle Inspection, and
4. describe the drive test requirements of the California DMV.

Course Scope and Content:

Unit I Introduction

- A. Who must have a California Driver's License (CDL) in California?
- B. Federal Motor Carrier Safety Administration
- C. Limitations and Exceptions

Unit II Driving Safely

- A. Equipment safety
- B. Driver fitness
- C. Traffic safety
- D. Road safety
- E. Environmental and weather safety

- F. Hours of Service
- G. Drivers' Daily Log requirements

- Unit III Transporting Cargo
- A. Pre-loading cargo inspection
 - B. Weight distribution
 - C. Mid-trip cargo inspection
 - D. Characteristics of equipment with and without cargo
 - E. Department of Transportation (DOT) cargo restrictions per Class
 - F. Emergencies and on-shoulder parking regulations

- Unit IV Air Brakes
- A. Principles of operation
 - B. System components
 - C. Trailer brakes

- Unit V Combination Vehicles
- A. Definitions
 - B. Handling characteristics

- Unit VI Doubles and Triples
- A. Definitions
 - B. Brake system
 - C. Clearances
 - D. Turning characteristics
 - E. Lighting requirements

- Unit VII Tank Vehicles
- A. Definitions
 - B. Types
 - C. Driving characteristics
 - D. Baffles and bulkheads
 - E. Loading and unloading

- Unit VIII Hazardous Materials/Wastes
- A. Definitions
 - B. Placarding
 - C. Documentation requirements
 - D. Emergencies
 - E. Cargo segregation

- Unit IX Introduction to the Drive Test
- A. Elements of the California DMV drive test
 - B. Typical driver mistakes during testing

- Unit X Written Testing
- A. Requirements
 - B. Errors allowed
 - C. Cost for test and retest

Unit XI Pre-trip Inspection Final Walk-through

- A. Elements of the Pre-Trip
- B. What to look for
- C. DOT Out-of-service thresholds
- D. Walk-around inspection
- E. In Cab inspection
- F. Air brake test

Lab Content:

- 1. Practical practice tests
- 2. Perform pre-drive inspections on a commercial vehicle
- 3. Perform air brake testing
- 4. Hands on, non-moving commercial vehicle familiarization

Learning Activities Required Outside of Class: None

Methods of Instruction:

- 1. Lecture
- 2. Video
- 3. Hands on, non-moving commercial vehicle practice
- 4. PowerPoint presentations

Methods of Evaluation:

- 1. Written examination
- 2. Pre-trip inspection of a commercial vehicle