

ADTSEA 3.0 Driver Education Curriculum Outline

Unit 1 – 3 Hours

12 Slides, 1 Video

Introduction to Novice Driver Responsibilities and the Licensing System

- I. Introduction to Course
 - A. Introduction
 - 1. School administrators
 - 2. School instructors
 - B. Purpose of Orientation
 - 1. Introduce Staff
 - 2. Explain School Policies
 - 3. Acquaint Students and Parent/Guardian/Mentor with Driver Education Course
 - 4. Distribute Course Materials
 - C. Course Information
 - D. Program Goals
- II. School In-car Plan and Skills Log
- III. Communication Guidelines
 - A. Student/instructor
 - B. Student/parent/guardian/mentor
 - C. Parent/guardian/mentor/instructor
- IV. State Driver Education Program and Licensing System Requirements
 - A. State Driver Education Program Requirements
 - 1. Successful completion of the course
 - B. Overview of Your State's Licensing System Requirements
 - 1. Learner's permit
 - 2. Intermediate driver's license (if applicable)
 - 3. Full driver's license
 - 4. GDL requirement
 - C. Why GDL is Needed
- V. Risk and Risk-taking
 - A. Definition
 - B. Characteristics
 - C. Risk Perception
 - D. Risk Management
- VI. Reading Assignment
- VII. Unit Review and Test

Unit 2 – 2 Hours
51 Slides, 5 Videos
Getting Acquainted with the Vehicle

- I. Pre-entry Checks
- II. The Area Around the Vehicle
- III. Safety Restraints
 - A. Adults and Teens
 - 1. Safety belts
 - 2. Head restraints
 - 3. Air bags (dash and steering wheel)
 - 4. Side impact air bags
 - B. Children and Youth
 - 1. Back seat
 - 2. Infant/rear-facing seats
 - 3. Toddlers/forward facing car seats
 - 4. Children/booster seats
 - 5. Lower anchors and tethers for children (LATCH)
 - C. Myths and Facts
 - D. Advances in Vehicle Safety for Today and Tomorrow
 - E. New Advances in Vehicle Safety for Tomorrow
- IV. Safety, Communication, Comfort, Convenience and Control Devices
 - A. Safety Communication, Comfort and Convenience Devices
 - B. Operating Vehicle Control Devices
 - C. Control and Information Device Symbols
 - D. Instrument Panel
- V. Pre-drive Procedures, Mirrors and Blind Spots
 - A. Pre-drive Procedures
 - 1. Lock doors
 - 2. Adjust seat, mirrors and head restraint
 - 3. Fasten safety belt
 - B. Mirror Settings
 - 1. Traditional
 - 2. Enhanced
 - 3. Advantages
 - 4. Setting Mirrors
 - 5. Concerns
 - 6. Mirror Usage
- VI. Vehicle Reference Points
 - A. Reference Point
 - B. Standard Reference Point
 - 1. Front Reference Point
 - 2. Rear Reference Point
 - 3. Right Side Reference Point
 - 4. Left Side Reference Point
 - C. Personal Reference Point
- VII. Vehicle Owner's Manual
 - A. Purpose

- B. Location
- VIII. Reading Assignment
- IX. Unit Review and Test

Unit 3 – 2 hours
26 Slides, 5 Videos

Understanding Vehicle Control: Starting, Steering and Stopping

- I. Starting the Engine and Moving the Vehicle Forward
 - A. Starting Procedures
 - 1. Parking Brake
 - 2. Foot Brake
 - 3. Gear Selection
 - 4. Ignition
 - 5. Engine Idle
 - 6. Ignition to Start
 - a) Gauges
 - b) Accessories
 - 7. Headlights
 - B. Moving the Vehicle Forward
 - 1. Gear Selection
 - 2. Parking Brake
 - 3. Check Mirrors
 - 4. Signal
 - 5. Brake Release
 - 6. Look along Intended Path of Travel
 - 7. Steer as Needed
 - 8. Cancel Signal
 - C. Accelerating
 - 1. Three Types of Acceleration
 - a) Engine Acceleration
 - b) Light Acceleration
 - c) Aggressive Acceleration
- II. Steering
 - A. Hand Position
 - B. Steering Techniques
 - 1. Hand-to-hand or push/pull steering
 - 2. Hand-over-hand steering
- III. Moving to Curb/Side of Road and Entering the Roadway from a Curb
 - A. Entering a Roadway from a Curb
 - 1. Signal and Check Traffic
 - 2. Identify Gap
 - 3. Look to Intended Path of Travel
 - 4. Release Brake and Accelerate
 - 5. Steer
 - 6. Cancel Signal
 - 7. Check for Users to Side
 - 8. Check Mirrors
 - 9. Visual Search Ahead

- B. Moving to Curb/Side of Road
 - 1. Identify Place to Park
 - 2. Check Mirrors
 - 3. Signal
 - 4. Release Accelerator
 - 5. Tap Brake Pedal
 - 6. Press Brake Pedal
 - 7. Steer Toward Curb
 - 8. Use Reference Points
 - 9. Apply Firm Pressure
 - 10. Center Between Lines
- IV. Stopping and Securing the Vehicle
 - A. Stopping the Vehicle
 - 1. Three Levels of Braking
 - a) Coasting
 - b) Controlled Braking
 - c) Threshold Braking
 - 2. Check Traffic
 - 3. Ease off Accelerator
 - 4. Tap Brake
 - 5. Press Down on Brake
 - 6. Shift to PARK
 - B. Securing the Vehicle
 - 1. Complete Stop
 - 2. Parking Brake
 - 3. Gear Selection
 - 4. Turn Off Accessories
 - 5. Ignition to Lock
 - 6. Unfasten Safety Belt
 - 7. Check Traffic and Lock Doors
- V. Backing
 - A. Backing Straight
 - 1. Traffic Check
 - 2. Foot Brake
 - 3. Gear Selection
 - 4. Steering Position
 - 5. Body Position
 - 6. Searching
 - 7. Control Movements
 - 8. Release Accelerator
 - 9. Look to Rear
 - B. Backing and Turning
 - 1. Traffic Check
 - 2. Foot Brake
 - 3. Gear Selection
 - 4. Signal
 - 5. Steering Position
 - 6. Body Position

7. Searching
 8. Control Movements
 9. Steering Direction
 10. Release Accelerator
 11. Look to Rear
- VI. Reading Assignment
- VII. Unit Review and Test

Unit 4 – 2 hours
42 Slides, 1 Video
Traffic Control Devices and Laws

- I. Definition and Purpose of Traffic Control Devices
 - A. Communication Modes
- II. Traffic Signs
 - A. Color
 - B. Shape
 - C. Type
- III. Traffic Signals
 - A. Pedestrian Signals
- IV. Pavement Markings
 - A. Yellow Lines
 - B. White Lines
 - C. Shared Left-turn Lanes
 - D. Reversible Lanes
 - E. Reserved or Restricted Lanes
 - F. Other Pavement Markings
- V. Traffic and Vehicle Laws
- VI. Reading Assignment
- VII. Unit Review and Test

Unit 5 – 6 hours
119 Slides, 6 Videos
Vision and Space Management

- I. Vision and Perception Requirements
 - A. The Importance of Vision
 - B. Three Types of Vision
 - C. Vision Terms
- II. Vehicle Operating Space
 - A. Space Cushion Around Your Vehicle
 1. Space Ahead
 2. Space to the Sides
 3. Space Behind
- III. Stopping Distance
- IV. Space Management System (SEE)
 - A. Search
 1. Search Ahead

2. Search to the Sides
3. Look Behind
4. Where to Search
5. When to Search
6. How to Search
7. What to Search For
8. Eye Habits for Vehicle Control
9. Searching Habits for Identification
- B. Evaluate
 1. Potential and Critical Risks
 2. Selecting the Best Path of Travel
 3. Using the Basics
- C. Execute
 1. Adjusting Your Speed
 2. Adjusting Your Position and/or Direction
 3. Communicating Your Intentions
- V. Lane Positions and Making Safe Lane Position Choices
- VI. Divided Attention / Multi-tasking
- VII. Reading Assignment
- VIII. Unit Review and Test

Unit 6 – 5 hours
51 Slides, 6 Videos
Basic Maneuvers in a Low-Risk Environment

- I. Natural Laws and Traction
 - A. Physical Laws that Affect Car Crashes
 - B. Crashworthiness
 - C. Road Surface and Traction
 - D. Inertia
 - E. Gravity
 - F. Vehicle Suspension, Balance and Traction
- II. Intersections
 - A. Approaching and Entering Intersections
 - B. Stopping at Intersections
 - C. Where to Stop at Intersections
 - D. Turning at Intersections
 - E. Multi-Lane Intersections
- III. Changing Lanes
 - A. Problems Associated with Changing Lanes
- IV. Turning Around
 - A. Turning Around to the Left and Right
 - B. Three-Point Turnabout
 - C. U-Turns
- V. Parking
 - A. Hill Parking
 - B. Angle Parking
 - C. Perpendicular Parking

- D. Parallel Parking
- VI. Passing and Being Passed
 - A. Illegal to Pass
 - B. Estimating Passing Gap Needs
 - C. Passing Procedures
 - D. Being Passed
- VII. Reading Assignment
- VIII. Unit Review and Test

Unit 7 – 4 hours
51 Slides, 2 Videos
Risk Reducing Strategies for Different Driving Environments

- I. Expressway Driving
 - A. Characteristics
 - B. Types of Interchanges
 - C. Entering
 - D. General Problems Associated
 - E. Driving on the Expressway
 - F. Lane Changes on the Expressway
 - G. Passing on the Expressway
 - H. Exiting
 - I. Special Expressway Conditions
- II. Urban Roadways
 - A. Characteristics
 - B. Adjusting To
 - C. General Problems Associated
 - D. Driving on Urban Roadways
 - E. Shared Left-turn Lanes
 - F. Driving in Moderate to Heavy Traffic
 - G. Special Urban Situations
- III. Rural Roadways
 - A. Characteristics
 - B. Adjusting To
 - C. General Problems Associated
 - D. Driving on Rural Roadways
 - E. Driving Through Curves
 - F. Driving Over Hills
 - G. Special Rural Road Conditions
- IV. Laws Specific to Different Driving Environments
- V. Reading Assignment
- VI. Unit Review and Test

Unit 8 – 4 hours
43 Slides, 5 Videos
Sharing the Road with Other Users

- I. The Importance of Sharing the Road with Other Users
- II. Sharing the Road with Pedestrians
- III. Sharing the Road with Bicycles

- IV. Sharing the Road with Motorcycles, Mopeds and Scooters
- V. Sharing the Road with Large Vehicles
 - A. Warning and Regulatory Signs for Large Vehicles
 - B. Hazardous Materials and Large Vehicles
 - C. Large Trucks and Stopping Distance
 - D. Passing and Meeting Large Trucks
 - E. Following Large Vehicles
 - F. Turning in Front of
 - G. Off-tracking
 - H. No-Zones
 - I. Truck Escape Ramps
 - J. Improving Your Road Sharing Skills with Large Vehicles
- VI. Sharing the Road with Emergency Vehicles
 - A. Move-over Laws
 - B. Police/Traffic Stops
- VII. Sharing the Road with Trains and Public Transportation
- VIII. Sharing the Road with Construction Vehicles and Work Zones
- IX. Reading Assignment
- X. Unit Review and Test

Unit 9 – 3 hours
32 Slides, 4 Videos
The Effects of Distractions on Driving

- I. Definition, Effects and Nature of Distracted Driving
- II. Potential Distractions Inside the Vehicle
 1. Types
 - B. Cell Phones
 1. Potential Dangers While Driving
 2. Potential Benefits in Vehicles
 - C. Text Messaging
 - D. Audio and Navigation Systems
 - E. Vehicle Passengers
- III. Potential Distractions Outside the Vehicle
 - A. Types
- IV. Preventing Distractions Before Driving
- V. Addressing Distractions While Driving
- VI. Spreading the Word on the Dangers of Distracted Driving
- VII. Reading Assignment
- VIII. Unit Review and Test

Unit 10 – 5 hours
52 Slides, 7 Videos
Adverse Driving Conditions and Emergencies

- I. Changing Weather and Conditions of Visibility
 - A. Driving at Night
 - B. Visibility Limited by Rain and Snow
 - C. Visibility Limited by Glare
 - D. Visibility Limited by Fog
 - E. Strong Winds
- II. Advanced Automotive Technology
- III. Changing Traction Conditions
 - A. Traction and Preventing Loss of Traction
 - B. Traction Loss
 - C. Hydroplaning
- IV. Emergency Recovery
 - A. Detecting Traction Loss
 - B. Skidding
 - 1. Causes of Skids
 - 2. Preventing Skids
 - 3. Responding to Skids
 - C. Types of Skids and Recovery Techniques
 - 1. Front-wheel Skid
 - 2. Rear-wheel Skid
 - D. Run-Off the Road Crashes
- V. Controlling the Consequences of a Crash
 - A. Evasive Maneuvers
 - 1. Evasive Steering
 - 2. Evasive Braking
 - 3. Evasive Acceleration
 - B. How to Minimize the Consequences of a Collision
- VI. Vehicle Malfunctions
 - A. Dashboard Warning Symbols
 - B. Vehicle Failures
 - 1. Tire Blowout
 - 2. Accelerator Failure
 - 3. Brake Failure
 - 4. Engine Failure
 - 5. Power Steering Failure
- VII. Collision Reporting
 - A. What to do at a Crash Scene
 - B. Your State's Vehicle Laws
- VIII. Reading Assignment
- IX. Unit Review and Test

Unit 11 – 4 hours
18 Slides, 1 Video
Impaired Driving

- I. The Responsibility to Say “No”
 - A. Consequences of Using Alcohol or Other Drugs and Driving
 - B. Stopping Another Person from Driving Drunk
 - C. Alternatives to Drinking and Driving
- II. Alcohol-Related Traffic Crash Problem
 - A. Nature of the Alcohol-Related Traffic Crash Problem
- III. State Alcohol Laws and Penalties
- IV. Effects and Elimination of Alcohol
 - A. Effects of Alcohol on Space Management
 - B. Factors that Affect BAC Level
 - C. Greater Risk Taking after Drinking
 - D. Common Signs of the Drinking Driver
 - E. Elimination of Alcohol
- V. Effects of Drugs Other than Alcohol on the Driving Task
 - A. Drugs Other than Alcohol
 - B. Effects of Drugs Other than Alcohol on the Driving Task
 - C. Effects of Marijuana
- VI. Reading Assignment
- VII. Unit Review and Test

Unit 12 – 3 hours
30 Slides, 2 Videos
The Effects of Fatigue and Emotions on Driving

- I. The Causes and Effects of Fatigue
 - A. Definition
 - B. Causes
 - C. Effects
 - D. Risks
 - E. Who is Most at Risk
 - F. Warning Signs of Fatigue
 - G. Preventing Drowsiness and Maintaining Alertness
- II. Emotions that Can Affect Driving Behavior
 - A. Emotions
 - B. General Effects of Emotions
 - C. Physical Effects of Emotions
 - D. Controlling Emotions
 - E. Passengers and Emotions
- III. Aggressive Driving and Road Rage
 - A. Aggressive Driving
 - B. Road Rage
 - C. Formula for Road Rage
 - D. Types of Aggression
 1. Verbal Aggression

- 2. Quiet Aggression
- 3. Epic Aggression
- E. Degrees of Aggression
 - 1. The “Rush-in” area
 - 2. The “Total aggression” area
 - 3. The “Violence” area
- IV. Strategies for Anger Management and Responding to Aggressive Driving and Road Rage
 - A. Self-Imposed Anxieties and Dangerous Reactions/Maneuvers
 - B. Reducing Your Stress
 - C. Don’t Trigger Aggression in Others
 - D. Dealing with Anger
- V. Reading Assignment
- VI. Unit Review and Test

Unit 13 – 2 hours
25 Slides, 2 Videos

Travel Planning, Loading, Towing and Driving Special Vehicles

- I. Travel Planning
 - A. Preparing for Any Trip
 - 1. Plan the Route
 - 2. Prepare the Vehicle
 - 3. Routine Maintenance
 - 4. Load the Vehicle
 - 5. Pack Emergency Equipment
 - B. Preparing the Driver for a Trip
- II. Towing and Driving Special Vehicles
 - A. Handling Large Vehicles
 - B. Handling Special Vehicles
 - C. Backing a Trailer
- III. Equipment, Connecting and Loading a Trailer Properly
 - A. Basic Equipment for Towing
 - B. Connecting and Disconnecting a Trailer
 - C. Loading a Trailer Properly
- IV. Reading Assignment
- V. Unit Review and Test

Unit 14 – 45 minutes
49 Slides, 3 Videos
Tire Safety and Maintenance

- I. Safe Tires Can Save Your Life
 - A. Complexity of Tires
 - B. Crashes Caused by Tire-related Issues
 - C. Percentage of Teens Who Know How to Maintain their Tires
- II. Steps to Maintain Your Tires
 - A. Why It Is Important to Maintain Your Tires?
 - 1. Ensures Your Safety
 - 2. Save Money on Tires
 - 3. Save Money on Fuel
 - B. How to Maintain Your Tires
 - 1. Inspect Your Tires
 - 2. Check the Air Pressure
 - 3. Do Not Drive at High Speed
 - 4. Use Your Spare Tire
 - C. Checking Your Air Pressure
 - 1. General Guidelines
 - 2. Where to Find the Recommended Pressure
 - 3. How to Check Your Tire Pressure
 - D. Checking Your Tread Wear
 - 1. General Guidelines
 - 2. The Penny Test
 - 3. Checking the Tread Wear Indicators
- III. Tire Maintenance Issues
 - A. Under-inflation
 - B. Uneven wear issues
 - C. Damage to Tires
 - D. Vibration issues
 - E. Flat tire
- IV. Tire Maintenance
 - A. Tire Rotation
 - B. Tire Alignment
 - C. Tire Balancing
- V. Buying Tires
 - A. Is My Tire Worn Out?
 - B. Replacing Your Tires