

TRUCKING COURSE FOR LEGAL PROFESSIONALS

# A UNIQUE APPROACH

*for handling trucking cases*



The  
**LEGACY**  
Corporation  
*International*

*At Legacy, we focus beyond classroom lectures by offering a practical and hands-on experience that prepares you to make a difference with the trucking cases you handle.*



## PROGRAM GUIDE

New Participant *Enrollment*

2017 / 2018

# GENERAL INFORMATION

## This program is special

Legacy offers a different approach with its truck driving course for legal professionals. We focus beyond classroom lectures. We offer a practical and hands-on experience so that you are prepared to make a difference with the trucking cases you handle on day one after completing the course.

Simply, you will have the opportunity to operate the truck yourself, as well as observe how we do it.



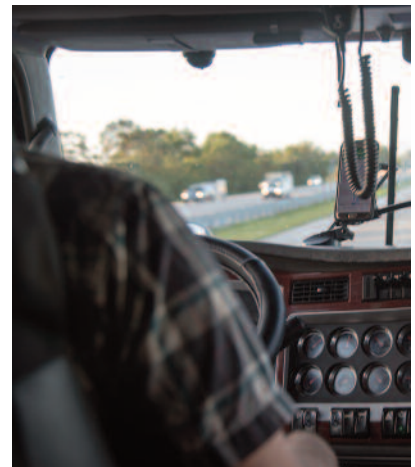
## Operating the truck yourself

There are two ways to approach this. (1) Obtain a CDL Permit; or, (2) Drive on our enclosed properties. Either way, you will have ample space, time and opportunity to perform fundamental maneuvers such as basic control, shifting, left and right turns, backing exercises, slowing and stopping, and advanced maneuvers such as abrupt slowing with firm braking, emergency stopping with hard braking, skidding to a stop, and fast lane changes, among other maneuvers.

### *Attending with a CDL Learner's Permit*

If you choose to obtain a CDL permit (CDLP) prior to attending the program, then you can and will legally operate the CMV on public roads during the program. Bear in mind that anyone who operates a CMV on public roads is subject to the same requirements as illustrated in Part 391 of the FMCSRs. *Choosing to go this route will require you to complete a full driver qualification file (DQF)*, including controlled substance and alcohol testing, and a review of your employment background and motor vehicle record. The greatest benefit to all of this is the experience of what a CMV driver applicant must go through in order to meet the regulatory requirements of operating a CMV.

If you choose to attend with the CDLP option, then notify the Legacy Administration Office when you apply and we will assist you in earning your CDLP. Legacy staff will provide you with complete instructions, information, reading material, and practice tests so you can study at home and obtain your CDLP in your home state prior to your arrival in Billings, Montana. You will also receive a DQF and instructions for obtaining your pre-employment controlled substance and alcohol testing.



### *Attending without a CDL Learner's Permit*

Nearly all of the driving instruction and demonstrations will take place on our facilities which are closed off to the general public, and therefore allows anyone to legally operate the CMV equipment without having

### **Behind-The-Wheel Instruction at our school and proving grounds**

Our facilities are very spacious and closed off from public access. This allows us to provide you with a true behind-the-wheel driving experience.



to obtain a CDL Learner's Permit, or engaging the complete driver qualification process. Our facilities, described subsequently in this catalogue, provide ample space to perform all maneuvers common to the operation of a CMV on streets and at highway speed.

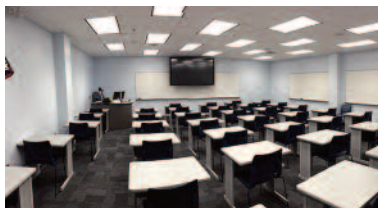
## FACILITIES & EQUIPMENT

Legacy facilities and equipment are modern, first-rate, impressive, and provide those who attend our programs with a favorable environment for learning and experiencing an ideal familiarization to the trucking industry. Legacy uses well-maintained modern advanced equipment. Tractors and trailers are operated by Lew Grill Specialized Services and leased to Legacy for training purposes.



Legacy facilities are located on a multi-purpose complex featuring a 27,143 sq. ft building with corporate offices, multiple classrooms equipped with modern teaching technology, trucking lab, multiple restroom areas, cafeteria, maintenance shop and cargo-handling area with overhead cranes, 15 truck bays, a 7-acre driving course, operations and dispatch center, and an approximately 2-mile paved proving grounds.

### *Classrooms*



Legacy has classroom facilities that accommodate lecture, lab, and various workshop activities. The classrooms are equipped with multiple wide-screen TVs, display boards, overhead projection, white and black dry-erase boards, and power-outlet desks. Instruction is reinforced by using audio/visual equipment, charts, textbooks, and various reference materials. The classrooms can open into a single lecture facility, equipped to seat approximately 80 participants, or can separate into two classrooms with movable wall folding partition dividers as commonly utilized with high-end hotel convention rooms.

### *Trucking Laboratory*

The Legacy trucking laboratory is a room equipped for scientific research, supplied with lab equipment and apparatuses as common to chemistry, physics, and science labs. The interaction with science tools shifts from instructor to participant in our lab lessons.

Legacy conducts a variety of experiments specific to trucking in the trucking laboratory. The instruction is designed to teach basic principles of chemistry and physics as they are applied to trucking. The lessons include experiments that show changes that take place when the truck, its components, fuel and lubricants are exposed to climate changes and forces on the vehicle while in motion. For example, waxing and gelling of fuels are taught by lowering the pour point temperature of both #1 and #2 diesel fuels to arctic temperatures to analyze the effects of waxing, gelling, and pour-point of fuels and oil. A wind tunnel is used to observe the aerodynamic flow of wind drag on a truck in motion to give appreciation to the “ocean of air” encountered and created by a truck as it travels at various speeds.<sup>3</sup>

### *Maintenance Shop & Cargo Handling Area*

Legacy’s 15-bay facility allows for conducting lab lessons that take place in and around a parked tractor-trailer. Some of the activities you will learn here include coupling and uncoupling trailers, sliding 5th-wheel and tandem axles, orientation to truck systems and components, modern in-truck technology systems,<sup>4</sup> downloading and analysis of a truck ECM, and a variety of vehicle inspection types.<sup>5</sup>



<sup>3</sup> Such information is useful in cases where a claimant alleges a “force-out” without evidence of contact with the truck in the adjacent lane.

<sup>4</sup> Examples include lane departure warning, pedestrian warning, electronic logging device(s), forward collision warning, 7-camera monitoring system, and traffic sign recognition. (It is impressive to experience operating a truck that can actually read speed limit signs and remind the driver what was posted.)

<sup>5</sup> Examples include driver pre-trip and post-trip, CDL required inspection, and motor carrier enforcement levels of inspection. The information is useful in understanding real-world time requirements to determine the safety of the equipment, and forensic analysis of logging.



### *Driving Course*

The Obstacle Skills Driving Range encompasses approximately seven acres, patterned with a variety of configurations, including parallel parking, alley docking, serpentine maneuvers, off-set alley, straight-line backing, overhead clearance, diminishing alley, introduction to shifting, and turning. Participants have the opportunity to practice the various maneuvers.

### **PROVING GROUNDS**

The Legacy Proving Grounds is used for special training and demonstration functions like skid control and recovery, stopping distances, visibility studies, emergency maneuvers, accident reenactment, skid to stop, hard brake procedures, wheel-off demonstrations, and even creating the conditions for driving in very limited visibility, such as fog and smoke. Participants attend instruction during daylight and nighttime hours. Visibility demonstrations at night include measuring the distances of lo-beam and high-beam headlights with respect to truck lighting, conspicuity tape, and placement of reflective warning triangles. Demonstrations include whether a trailer can be dragged off the road in the event of locked brakes, and whether a driver can feel the difference of vibrations and sound when a set of dual wheels depart from a trailer. Timing exercises include the time and speed achieved in various gears, turning maneuvers, and the placement of warning devices according to regulation requirements. Hard braking, firm braking, emergency and non-emergency braking are performed at various speeds.



The Legacy Proving Grounds has a capacity of 3,000. The main course roadway is 4,265' long x 60' wide, and includes a 325' sand and gravel runaway escape zone. The return road is 25' wide and about the same length as the main course. There is ample parking and maneuvering space for cars and trucks. Instruction at the proving grounds allows time for participants to operate the truck, conduct and observe emergency maneuvers, and investigate complex problems encountered in trucking litigation cases. Participants are encouraged to suggest case problem situations that they are currently working on.



**The Legacy Proving Grounds provides a unique opportunity to create and simulate challenging situations. Legacy has the capability of creating a fog and smoke visibility environment, skid control and recovery situations, emergency maneuvers, wheel-off departure problems, nighttime visibility studies, and so forth that results in a one-of-a-kind learning program. Having our own proving grounds is vital to this process.**

# LEGACY PROGRAM ELEMENTS

## Logistics

Logistical information for attending the Legacy Program for Legal and Administrative Professionals is described below. Please call our administration office for class start dates and further inquiry.

- Program Length: This is a 20-hour program that takes place over the course of two days.
- Program cost: \$2,880. The cost includes registration, books, materials and supplies, all course instruction, local transportation to/from hotels and the Legacy main facility, transportation to/from the Legacy Proving Grounds, and all meals.

The cost does not include the special fees required for attending with a CDL license or permit with the intent of receiving instruction on public roads, as described previously in this program guide. The instruction for non-CDL license or permit drivers takes place on roads and driving courses which are operated and controlled by Legacy at the time and place of your instruction, unless other arrangements have been made.

- Lodging: There are many local hotels and suites within one mile of Legacy. Pricing approximately ranges from \$75 to \$175 per night. We generally have a cost reduction for those enrolled in our programs. Please call the school and inquire.
- Meals: All meals are included in the program cost. Meals at the main facility are offered in our cafeteria. The meals are catered by local providers. Weather permitting, we often barbeque outdoors in our pavillion. Meals at the Legacy Proving Grounds are offered at our concession area.

## Organization of the Program

### *Orientation*

The program begins with an orientation that includes: participant check-in & reception, welcome speech and material packet handouts, staff & participant introduction, overview of safety policies, read & sign safety forms, PPE checkout, course curriculum overview, and facility tour.

### *Classroom*

Examples of subjects taught in the classroom include instruction on the primary areas of accident causation, overview of the general knowledge and endorsement CDL requirements, truck electronics and technology, electronic data recorders (EDRs), electronic logging devices (ELDs), and vehicle out-of-service (OOS) criteria. An in-depth presentation of hours-of-service (HOS) is taught, including filling out log-books, overview of HOS regulations, applicability of HOS, and industry challenges relating to HOS regulations. Other classroom subjects include general safety principles and hazards, overview of FMCSR/state CDL manual hazard and safety related rules and regulations, how "extreme caution" is used and applied, use of reflective safety triangles, drug and alcohol requirements, driver medical examination requirements and walkthrough, tire failures, abuses, and preventative maintenance, driver visibility and nighttime limitations, and more. A thorough Q & A period follows, with the opportunity to discuss personal cases.

#### Primary Areas of Accident Causation

- 1 Mechanical
- 2 Competency
- 3 Distraction
- 4 Agressive Driving
- 5 Ill or Fatigued Operator
- 6 Extreme Blunder
- 7 Sudden Emergency

### *Lab*

Lab instruction includes exercises in and around a parked tractor-trailer and offers a hands-on introduction to tractor-trailer components and vehicle control systems. Various types of vehicle inspections are taught, including: North American/CVSA Level 1, required annual inspection, various driver pretrip and

post trip “by the book” inspections with reporting requirements, and driver walk-around inspections in the real world environment. Lab instruction also includes practical applications of truck electronics and technology, introduction to electronic logging devices, overview of electronic logging devices (ELDs), ELD limitations, administrative monitoring of in-truck technology as seen by the motor carrier, overview of cameras and safety monitoring devices including their limitations, electronic control modules (ECMs) engine data downloads including the methods, interpretations, and use of the data.

### *Driving Range*

This section presents hands-on driving instruction on our off-road obstacle course driving range. Instruction includes basic control, coupling and uncoupling, shifting, backing a tractor-trailer, lateral clearance, turning, alley docking, and development of basic maneuvering skills. A variety of visibility testing and experiment exercises are included such as: warning triangle application, low beam/high beam distance and reflectivity tests, blind spot/no-zone tests, tire inspections and inflation tests.

### *Streets & Highways*

This section covers the interaction between the driver/CMV combination and the traffic environment. The instruction focuses on The Legacy 7-View Performance Requirements. Participants attending without a CDL



Permit will observe highway driving procedures that will be explained using a “commentary driving” instructional technique. Participants with a CDL Permit will have the opportunity to operate the CMV in traffic under direct guidance of a competent instructor. Advanced operating procedures are taught in this section, which include: visual search, communication in traffic, speed and space management, sightline & blindspots, night operation, and extreme driving conditions. Participants

without a CDL Permit will have an opportunity to operate a truck at highway speeds on the driving course at the Legacy Proving Grounds.

### *Proving Grounds*

Participants will take part in a variety of testing and data collection exercises during this phase of the program. Examples include: stopping distances at various speeds (including brakes in adjustment, various brakes out of adjustment, various speeds), right and left-hand turn timing, shoulder entry & exit timing, wheel departure vibration testing, moving a trailer from a traveled lane with locked brakes, wheel changing observation and torque application, acceleration timing, various gear selection speed timing, engine data downloads and analysis, nighttime visibility exercises, fog/smoke visibility, and more.



Proving Ground Concession Area & Bleachers



Proving Ground Test Track



As an extra benefit during the classroom and field exercises, Michael DiTallo from Northwestern University and Dynamic Safety LLC will be giving a variety of presentations to the class including Event Data Recorders now and in the future, Heavy Vehicle Crash Reconstruction Principles, Emerging Heavy Vehicle Technologies and Level 1 to 5 DOT inspections.

Mr. DiTallo will be instrumental and leading several of the tests and experiment exercises performed at the Driving Range segment of this course based on his extensive experience.

After the presentations and exercises, Mr. DiTallo will be available for a question and answer session that promises to be informative and rewarding.

## Teaching the Latest Technology

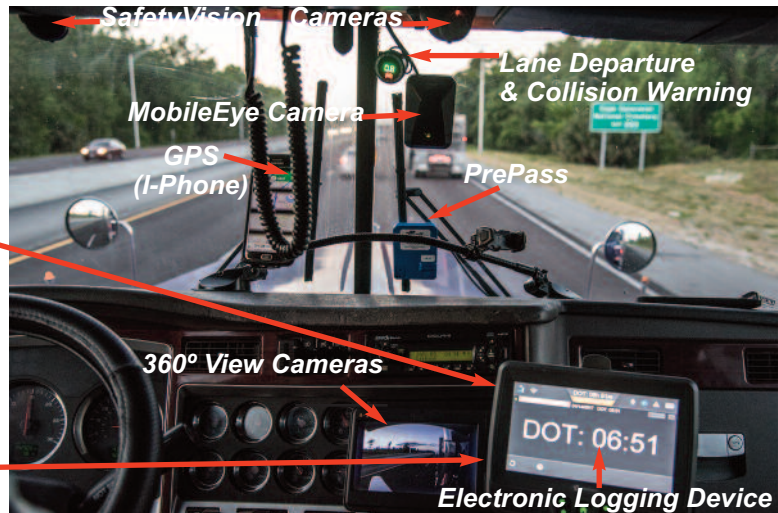
The Legacy Trucking Program for Legal and Administrative Professionals gives you the opportunity to witness and learn first hand about the latest technology used in trucking. You will discover what is ready for prime time, and what isn't. The concepts of the latest truck technology are appearing more and more in litigation matters surrounding truck crashes.

### Qualcomm Omnictracs

Truck dispatching, electronic logging, critical event reporting, driver vehicle inspection reporting (DVIR), vehicle navigation, engine diagnostics, vehicle tracking, fuel level transmitting, and more.

### PeopleNet

Information delivered via real-time alarms or scheduled data downloads providing on-the-road knowledge to management about speed, RPM, distance, fuel efficiency, and idle time.



### MobilEye Vehicle Monitoring System



Speed Limit Indicator



Forward Collision Warning



Pedestrian & Cyclist Warning



Forward Monitoring & Warning



Lane Departure Warning

### 7-View Requirements

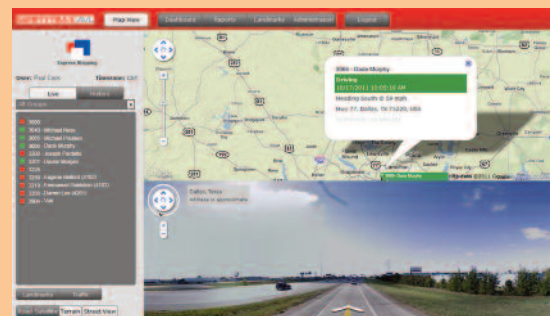
The performance standard while operating a CMV is to maintain a reasonable scan of 7 primary views. The order or sequence is determined on the need to collect information according to juxtaposition - that is, where the CMV is relative to moving and stationary objects. The 7 views include —

- 1 Driver's side window.
- 2 Driver's left mirror set.
- 3 Driver's windshield.
- 4 Passenger's windshield.
- 5 Passenger's right mirror set.
- 6 Passenger's side window.
- 7 Gauges and instruments

Timing exercises for these scans demonstrated in the program are useful in analyzing cases where "lookout" is an element of the case in trying to determine the amount of time expected for a driver to reasonably see, discern, and appreciate the driving environment.

### SafetyVision Monitoring

Interior and exterior camera monitoring, equipped with 360° "Live Look" video streaming from around and inside the truck to the home base. Combined with interfaces for tire pressure monitoring, automated vehicle location, GPS, system health status, geo-fencing, driver fatigue, diagnostics for proactive monitoring of truck.



## FACULTY

### Lew Grill

Lew is Co-founder and Chief Visionary Officer of The Legacy Corporation. He has over 50 years experience as a truck driver, independant trucker, truck driver training instructor, and has driven millions of miles throughout the entire western hemisphere and Europe. Lew has 35 years of experience as trucking expert witness, and has consulted for motor carrier fleets, industry and government, including the U.S. DOT. Lew's complete profile appears on his website at [www.LewGrill.com](http://www.LewGrill.com).

### Carmella Campanian

Carmella Campanian is co-founder and President/CEO of The Legacy Corporation. She has over 35 years of experience in the trucking industry with supervising owner-operator/independant truckers, trucking terminals, and truck driving schools. Carmella studied international transportation law at Gonzaga University. She was an International Traffic Consultant and Terminal Manager for the Waggoner's Trucking Company where she was responsible for government compliance of ground and seaport traffic between Canada, Mexico and the United States. Carmella's experience includes locating freight, dispatching trucks, interviewing and hiring drivers, development of training videos and manuals, supervising truck driving schools, and consulting on special projects for motor carrier fleets and government agencies, including the U.S. DOT.

### Adam Grill

Adam Grill is the Executive Director for The Legacy Corporation, and the Director of Motor Carrier Operations for the Atlantic Pacific Resource Group. Adam has over 15 years experience as a truck driver, truck driver training instructor, heavy equipment operator, and trucking terminal supervisor. In addition to having all endorsements on his Class A CDL, Adam has certifications as a pilot/escort driver, overhead crane operator, forklift operator, and other equipment. Adam has worked on hundreds of trucking litigation cases.

### Mike DiTallo

Mike is a founding partner at Dynamic Safety LLC, and an accident reconstruction instructor at Northwestern University. Mike combines nearly 30 years of experience in collision reconstruction and investigation with a law enforcement background, where he worked as a collision investigator, commercial vehicle inspector, motorcycle officer and reconstructionist. A leading educator in the field, he has been a faculty member at Northwestern University for over 20 years, and frequently appears as an expert witness.

### Specialty Speakers

In addition to our usual staff of qualified instructors, who teach and demonstrate the truck driving exercises, there are frequent appearances by special guest presenters from motor carrier fleets, law enforcement, U.S. DOT and other governmental agencies, and other experienced litigation experts from a variety of disciplines to enhance the perspective on topics taught during the course.

## ADMISSION PROCEDURES

Persons desiring admission should contact Legacy's Admissions Office, or one of its representatives. Interested persons are required to complete an Enrollment Application. A Legacy school official will interview the applicant to discuss whether the applicant wants to attend as a CDL participant, or take the option to operate the equipment on our closed driving courses, which does not require obtaining a CDL permit. A Legacy representative will determine if the individual is qualified to operate on public roads. The qualified applicant is then required to complete all forms necessary for admission, and make arrangements for payment through Legacy prior to starting the program.

*For admission please contact:*

The LEGACY Corporation  
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Billings, Montana 59101  
(406) 248-2766 • (800) 457-5744  
[www.LegacySchools.com](http://www.LegacySchools.com)