

# Duramax 6.6L Weekend Training

## The Duramax Weekend course is now available!

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The Duramax engine has evolved and has many versions which have changed since it was introduced in 2001 model year. Tony Salas will be instructing you on the older LB7 to the newer LGH Duramax Diesel. Tony has been involved with the Duramax 6.6L and continues to train technicians in the Diesel repair world.

### Instruction will cover the following:

- A. Which are the Duramax engines? LB7, LLY, LBZ, LMM, LGL and LML.
- B. Common rail fuel injection system used, components and diagnosing.
- C. Engine design and differences, key items to know when repairing this engine, disassembly procedures, checks and assembly. Review key components.
- D. Cooling system issues. He will demonstrate common mistakes technicians make with the cooling system, proper repair and filling.
- E. Turbocharger operation- Early wastegate Borg-Warner to the variable nozzle Garrett style will be explained and we will review common diagnostic checks.
- F. Programming and the use of service.gm.com. Confirming the latest updates and learn how to program using the scan tool.
- G. Service information review. Know how to use the service information from GM and other service information providers. Diagnose diagnostic trouble codes properly.
- H. Network diagnosis, review the CAN system and the GMLAN how they are set-up.
- I. Instruct common procedures to follow when diagnosing these diesel engines.
- J. Review use of Tech 2 and Tech 2WIN scan tools. Discuss aftermarket scan tools such as the Snap On Verus.

This is a two and half day course which starts on Friday afternoon and continues all day Saturday and Sunday. Training covers all of the versions of the 6.6L Duramax extensively. Hands on training will include these engines and demonstrations will include items and techniques you can use tomorrow when diagnosing and repairing these trucks. Case studies will be covered.

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### Schedule:

Day 1: Introduction- (Class starts at 3:00pm) Engine designs, LB7 and LLY. Explain how the common rail injection system is set-up. Review diagnostic low pressure, high pressure and return volume checks, demonstrate the High Pressure injection pump, checking the fuel rail pressure regulator (MPROP). Instruction on engine checks.

For more information you can visit our website [www.powertraintraining.com](http://www.powertraintraining.com)

Day 2: LLY and LBZ for 2006 and later models will be viewed along with the Chevrolet and GMC Express Savanna and Express vans equipped with these engines. Review emission control devices . EGR valve, common P0101 Mass Airflow issues to be discussed. Introduce Aftertreatment Systems.

Day 3: LMM and newer LGL and LML. Review differences from earlier generations. Continue discussion on the Aftertreatment systems and the Reductant (DEF) fluid system. Demonstrate common procedures to follow. Instruct on the Aftertreatment system, learn the operation and objective of the Diesel Oxidation Catalyst (DOC) and the Diesel Particulate Filter (DPF). Review regeneration procedures.

The class will conclude with a demonstration on how to diagnose and take full advantage of the scan tool and it's features. Use of the service information and charts will be emphasized.

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Cost: \$580.00

Fee includes books and materials.

We highly recommend attendees to bring a laptop or tablet compatible with internet explorer.

About the instructor:

Tony Salas is an Automotive and Diesel Specialist with more than 20 years of experience teaching diesel diagnostics and repair. He has provided contract training for General Motors Fleet and Commercial as well as AC Delco. His training experience includes GM 6.5 and Duramax 6.6L, Ford Powerstroke and various other topics. His experience includes instruction in the post-secondary level where he developed curriculum and taught for the community college in Las Vegas, NV. He also taught classes at the Toyota Urban League Automotive Training Center. Tony holds an associate degree in Automotive and Diesel technology. He is an ASE master technician and holds a teaching credential from Cal State Long Beach. He currently operates Powertrain Performance LLC as a training provider and training consultant.

For more information you can visit our website [www.powertraintraining.com](http://www.powertraintraining.com)