

Custom Tuning Class

March 18th and 19th

Marine Tech
High Performance Research & Development
4634 19th St. Ct. E.
Bradenton, FL 34203



Here's the vacation you've been looking for. Join us down in Bradenton Florida at Marine Tech High Performance Research and Development on Wednesday March 18th and Thursday March 19th 2009 to learn tuning strategies and share experiences with fellow common-rail gear heads. The class will be hosted by the facilities owner, Rick Beirau and taught by Nick Priegnitz, owner of [Duramaxtuner LLC](http://www.duramaxtuner.com). Click [here](#) for a review of the last class.

This class is geared toward enthusiasts and technicians who are competent in the very basics of the EFI Live software suite. The student will be ahead of the game if they have an understanding of the fundamentals of a common rail fuel injection system, and are comfortable reading, flashing, and using the scan/edit tool in its basic functions. Familiarity with the location of tables in the tuning suite would be helpful, though they need not know the direct affects of the tables. Students must bring a laptop and working copy of EFILive's software suite.

The first part of the class (8 hours day one) will be an explanation of the major vehicle systems related to Duramax performance. Transmission, engine hard parts, fuel systems, and turbochargers will make up the main body of this section. Second part of the first day will be a comprehensive overview of the ECM algorithms for processing fueling calculations, timing calculations, and boost control. Effects of and methods for adjusting these tables associated with these algorithms will be described. Topics like noise, smoke, cylinder pressure, fuel consumption, and exhaust gas temperature will be covered. The lecture sections will be interwoven with the EFILive tuning tool operation. Physical models of VVT and CP3 operation will be available for viewing.

Day two will also be an eight hour session. We'll continue where we left off on day one with use of the tuning tool and work our way into the scan tool and into discussion of vehicle diagnostics. Common trouble spots associated with Duramax tuning will be covered. Students will then be challenged in groups to solve real world problems in tuning via case study exercises. We'll finish off the second day with some "hands on" tuning on a load cell dyno using a Duramax. Students will have the opportunity to run some of their own tunes and to review log files from dyno test of those tunes.

This class will start at 8:00 AM and continue until about 3 p.m on both days, possibly running later on the second day. We will take breaks throughout the class and students will have plenty of time to interact personally and in small groups with the instructor. Lunch and refreshments will be provided throughout the class.

Please go to <http://www.duramaxtuner.com/florida> to pre-register and to view lodging and flight information. Cost will be \$425 per attendee for the two day session. This includes lunch and snacks. Class size is limited; register early to ensure a spot. Flight arrangements are best made into Sarasota, and while hotel accommodations are the attendees responsibility we plan on running a shuttle to and from the event between the Holiday Inn at Lido beach. This hotel is on the beach, rooms with 2 king beds can be had for \$199/night (plan your lodging with other attendees and save).