

## Professional dyno training courses from Motor Sport Academy

Australia-based Motor Sport Academy offers a wide gamut of services to the global motor-sports industry. Now, they are offering an intensive dyno tuning course that looks set to give aspiring Middle East-based aftermarket tuners that definitive edge over the competition.

Motor Sport Academy is an Australian Company specializing in the creation and delivery of industry-leading training and development techniques. The academy was founded in 2007 to service enthusiasts, racers, trades people and corporations involved in the motorsport industry.

Based in Australia, nearly 80 per cent of the students attending the various courses are from overseas, with a good number from the Middle East. The Academy's most notable course at present is an intensive Dyno Tuning Course, which focuses on aftermarket engine management system tuning of systems such as Haltech, Motec and the like. Students learn all the essential fundamentals of tuning and tuning with different race fuels, different engine modifications and with different control systems.

This particular course comes with an 84-page reference manual and ongoing tech support, all of which are based on the collective knowledge of well-known Aussie tuners Tim Possingham and Martin Donnon, who have a combined 35 years worth of tuning experience.

Main topics covered in the Intensive Dyno Tuning Course start with 'Internal Combustion Engine Basics Relative to

Power and Tuning', which focuses on fuel technology. As such, the segment covers areas related to fuel characteristics and fuel terminology, as well as fuel comparison tables and other useful tables. It also helps you to understand effective compression ratios, in addition to getting a hold on race fuels and how to choose the right fuel for extracting maximum power.

The section titled 'Engine Management Systems Today' teaches about the plethora of factory engine management systems and aftermarket management systems available today.

Then we come to 'Advanced Tuning Terminology' that lets you in on what those tuning gurus are talking about, as well as serving up in-depth details on the required tools and equipment.

Solid groundwork is needed in which-ever area one wishes to specialize in and, therefore, the course includes the fundamentals about tuning, including

basic engine operation, engine characteristics, load, ignition timing optimisation and mixtures.

Following the next 'Dyno Tuning Basics' section, which teaches about dyno physics and operation, a variety of tuning techniques are taught, starting with the basics and implementation before moving on to engine characteristics,



modifications, unusual results and characteristics, tuning on different fuels, tuning for power and tuning for economy.

Of course, students also get hands-on dyno exercises including tuning for different engine characteristics, tuning with three different fuels and engine troubleshooting demonstrations.

The course book ends with 'Tips & Troubleshooting' as well as an overview section.

Featuring almost a full day of hands-on exercises for participants, the Intensive Dyno Tuning course also gives those attending valuable time whilst in the car on the dyno. Students will actually tune a 600hp Nissan Skyline from start to finish at the conclusion of the course and Motorsport Academy boasts a 100% success rate on students attending this course.

Recently Motorsport Academy launched three new courses for Nissan GT-R R35 tuning and vehicle technology, as well as for the Mitsubishi Evolution and Subaru Impreza. The firm is currently developing a course for Porsche GT3 Cup cars as well.

These courses teach students about tuning each type of vehicle as well as engine, chassis, suspension and transmission modifications to race-prepare these vehicles.

Courses are done in a one-on-one environment as private tuition. Course dates are set at a time that suits each student. At present, Motorsport academy has a limited special offer of free accommodation and local transport for Top Performance readers wishing to travel to Australia to take part in any of these courses. You can e-mail [admin@motorsportacademy.com.au](mailto:admin@motorsportacademy.com.au) for more information on this special offer.

Aimed at establishments with high performance and motorsport interests, these courses first touch on basic tuning principles and essentials of safe tuning for maximum power before delving into tuning on different fuels, different engine characteristics and engine types, and each course has a real world workplace slant on the course content.

The real-world mentality in the delivery of the course content has proven to have great appeal for dyno-tuners and mechanics working on modified vehicles in a day-to-day environment and participants can immediately relate their learning to actual experiences in the workshop, allowing them to put that new knowledge into practice immediately.

Having already received a great deal of positive feedback from tuners of all levels, from novice to the highly experienced, participants of these courses will certainly reap rewards of productivity as well as making for safe and effective tuning techniques in their field. ○○○

Course information can be found on-line at [www.motorsportacademy.com.au](http://www.motorsportacademy.com.au)

You can e-mail [admin@motorsportacademy.com.au](mailto:admin@motorsportacademy.com.au) or phone Tim Possingham on +61417171730 to request more information on this or any of the MSA courses. Discounts for workplaces sending multiple employees are also available.

