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# TUNE FILE WRITING USING ECM TITANIUM

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## COURSE PROSPECTUS

*Jointly presented by*



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## Training course team

### ***Glen "Eric" Ebert – Brisbane Alientech Centre – Training Specialist***

With over 14 years in the tuning industry, Eric brings a wealth of knowledge incorporating a trade Mechanical background and after-market tune-file writing expertise. Eric's focus has been on Alientech equipment and training since 2012.

### ***Sharon McVilly – ECUWEST - administration and training support***

## Course structure, pre-requisites, requirements

### Requirements

Please remember to bring the following for each day of training:

- Laptop
- Pen/writing paper
- ECM Titanium software programme (not essential, but helpful)

Please note: morning and afternoon tea will be provided, along with tea/coffee and water during the course. Lunch will be catered for, please advise if you have any dietary requirements of note.



## Course structure and pre-requisites

### Level 1 – Basic training and practical use of equipment, ECUs & ECM Titanium

2 days

9 am – 4 pm

Pre-requisites: This course is for anyone who is considering moving into the world of tuning ECUs. Some automotive mechanical knowledge would be an advantage, computer literacy is a must.

#### Day One, Two and Three

- Introduction to ECUs and the world of tuning
- Torque, power, and emissions – what does it all mean?
- Combustion and carburetion: theory, AFR, Lambda probe (oxygen sensor)
- Petrol Engine: Structure and operation details of the injection system
- What is an original file, where you can find it, how it works and it's structure
- ECU: Functions and peculiarities
- KESSv2: Serial reading/writing tool
- K-TAG: reading/writing tool interfaced with the Microprocessor
- ECM Titanium: tuning software
- Examples of how to modify a map: Turbo diesel and turbo petrol engine
- Necessary checks to test a correct tuning

### Level 2 – Advanced diesel tuning

1 day

9 am – 4 pm

This course is for anyone who would like to up-skill for DIESEL vehicle tune file writing using Alientech's ECM Titanium, K-Tag and KESS v2. Basic training course not necessary, but helpful to ensure you are familiar with the Alientech suite of tools. Basic content will not be covered.

#### Content covered

- Introduction to the ECU and the world of chiptuning
- Diesel Engine: Structure and operation details of the injection system
- What is an original file, where you can find it, how it works and its structure
- ECU: Functions and peculiarities
- Examples of how to modify a map
- Necessary checks to test a correct tuning

## Level 2 – Advanced petrol tuning

1 day

9 am – 4 pm

This course is for anyone who would like to up-skill for PETROL vehicle tune file writing using Alientech's ECM Titanium, K-Tag and KESS v2. Basic training course not necessary, but helpful to ensure you are familiar with the Alientech suite of tools. Basic content will not be covered.

### Content covered

- Introduction to the ECU and the world of chip tuning
- Petrol Engine: Structure and operation details of the injection system
- What is an original file, where you can find it, how it works and its structure
- ECU: Functions and peculiarities
- Examples of how to modify a map
- Necessary checks to test a correct tuning



## Training at ECUWEST

Where ever your skills are at with tune-file writing, undertaking training at ECUWEST allows you to learn in full, air-conditioned comfort with access to tools and equipment that show you how to write tune files from beginning to finished product including on-site dyno testing and post-tune diagnostic analysis.

During your training time with ECUWEST you can witness first-hand how a busy tune-file writing company operates from day-to-day, because training takes place at ECUWEST Headquarters where not only tuning of off-the-street vehicles take place, but where support of an Australia-wide dealer network happens.

The training room is well appointed with a maximum of 12 participants, ensuring class sizes are never too full that you won't get one on one time with your trainer. The training room is equipped with power sources for your laptop and mobile phones.



## Course fees and booking options

Course fees current for 2018\*

Master course – Level 1 and Level 2 (4 days) .....\$2,650.00 inc GST

### **HOW TO BOOK YOUR PLACE**

By phone – please call 08 9590 6138

By email – please email Sharon with any queries at [sharon@ecuwest.com.au](mailto:sharon@ecuwest.com.au)

**COURSES ARE HELD AT ECUWEST - 6/18 JACQUARD WAY, PORT KENNEDY, WA 6172**