

ADVANCED EEPROM, MCU & SOLDERING

COURSE INTRODUCTION

This two day course has been designed to further educate automotive locksmiths and technicians in EEPROM related solutions, providing the knowledge and practical skills to execute more advanced key making methods using soldering irons and MCU/Flash device programmers.

Designed for users already familiar with basic 8 lead (leg) EEPROM in-circuit reading and writing, candidates will develop a detailed understanding of memory functionality, discover and practice various methods of reading and processing BIN files, and undertake both theory and practical training on surface mount soldering and de-soldering.

Suitable applicants should be able to demonstrate:

- Identifying and understanding 8 lead IC EEPROM packages
- Determining EEPROM manufacturer and package version
- Reading and writing 8 lead EEPROM memory in-circuit using a universal programmer

FEATURED APPLICATIONS

- Saab TWICE (HC05)
- GM immo 1&2 (HC05)(TMS302)
- BMW EWS 2,3, (HC11)
- BMW CAS 2,3 (9S12)
- Volvo CEM (Intel flash)
- Chrysler SKIM (HC08)
- Mercedes Sprinter / Vito (HC08)
- Mercedes IR EIS (9S12)(HC05)(HC08)
- VAG Immo 1, (1&2) (HC05)(TMS370)
- Mitsubishi Magna ID46 (HC11)

Regularly updated course documentation covers both theory and practical elements featured the training.

YOURS TO KEEP

Included with the course fee is the equipment required to perform the work including (value: \$619 AUD) :

- A GOOT digital soldering station
- Sundries (.35mm solder, solder braid, brushes, ESD tweezer set, STI practice kit, inspection loupe & more)
- A reference manual including the course content and extended information



AEE 101

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TOPICS

- Characteristics and functionality of Memory
- Identification /description of Surface Mount devices
- Identification and decoding of Mask sets
- Functionality & characteristics of specific MCU Family
- MCU Security features and bypass
- Reading / Writing of EEPROM and Flash memory
- Processing BIN files with transponder tools
- Devices relating to vehicle immobilisers
- Soldering & de-soldering preparation
- Soldering physics and theory
- Surface mount soldering / de-soldering

FEATURED TOOLS

The subjects and references include coverage of tools:

- Scorpio-1k Tango & Orange5 programmer
- TMPro2
- MBE SMOK programmer
- XProg-M programmer
- Zed Bull / Zed Full, AD900Pro/Cyclone

WHY TECH ED?

LSC Tech Ed offers both product specific, and non-product specific training for locksmiths, security installers and automotive industry engineers around Australia and New Zealand.

Professionally trained and qualified instructors with industry backgrounds provide the highest quality theory and practical training elements, ensuring students are ready to execute their newly developed skills immediately into their business.

TECHED

Register now at www.lsc.com.au
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