

Licenced Certifiers Association General Meeting Minutes

Venue: Mark Dewhurst Automotive Engineering – 5 Koolera Road Wyee NSW 2259 (*Workshop at rear*)

Meeting Presentation Start 4.30pm July 17th 2025

All members present must sign in the LCA attendance book.

Open Meeting Presentation: Mark Dewhurst **Time:** 4.30pm **Date:** 17/07/2025

Attendees: Meeting (Live)

Ian Carpenter, Scott Herning, Micheal Azzopardi, John Oste, Phil Woods, Jason Robertson

Zoom: None

Visitor: Nil

Apologies: Ken O’Keefe, Terry Leeder, Mark Woods, David Peebles

Item No	Agenda Item	Action/ Notes	Status
		General Meeting Presentation open at 4.30pm.	
1.	Recording of the Zoom Meetings	The presentation was recorded.	OPEN
10.	Emission Testing Presentation Night	<p>Mark Dewhurst Automotive Engineering – Emission Testing.</p> <p>A practical emission testing session was presented by Mark Dewhurst and conducted on three (3) vehicles: two OEM vehicles (a Hyundai i30 and a Toyota Corolla) and a modified 80 Series Toyota Landcruiser fitted with a turbocharger.</p> <p>The testing was carried out in accordance with Transport for NSW (TfNSW) Standard Compliance Specifications, following the Interim NSW Vehicle Emissions Protocol. Assessments were performed using an AutoGas 5-gas emission analyser to ADR 37/01 & 79 requirements, with both pass and fail results recorded.</p> <p>This session provided an excellent educational experience for all Licensed Certifier Authority (LCA) certifiers in attendance. It effectively highlighted the increased risk of emission compliance failures in modified vehicles. Both OEM vehicles successfully met the emissions standards, whereas the modified Landcruiser failed to comply, recording results significantly outside the test criteria.</p> <p>Special thanks to Mark Dewhurst for providing access to his workshop, sharing his expertise, and delivering a highly professional and informative presentation.</p> <p><u>Emission Test Criteria – Smoke Test & 2-speed idle testing.</u></p> <p>1. Equipment / Requirements Testing was undertaken on petrol fuelled light vehicles with spark ignition (SI) engines.</p>	OPEN

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Compression Ignition (CI) engines. (Scan Tool, Tachometer providing engine, Non-contact thermometer, Autogas 5 Gas Analyser)

2. Vehicle Warm up (Engine / Catalytic Converter)
Take the vehicle for an on-road warm to ensure the catalytic converter is hot and at operating temperature

3. Visual Inspection Check for Exhaust and Fuel Leaks, original equipment manufacturer (OEM) engine emission components, that were installed at the time of manufacture are present and Closed Loop Engine Management and Catalyst Monitoring Systems.

4. Visual Smoke Test Run the engine speed to between 2500 to 3000 rpm, maintain that engine speed for approximately 20 seconds, then allow the engine to return to its normal idle speed.

5 OBD/Engine control Systems Check engine control unit (ECU for fault codes or unset readiness monitors (ie warning lamps, etc) on OBDII or EOBD equipped vehicles. (ADR.79/01 onwards for petrol fueled vehicles). A vehicle built to ADR.79/01 or later must also be checked (ie using an suitable OBD reader) to ensure that its originally fitted ECU functions are within OEM specifications.

6. Two Speed (ie Low and High Speed) Idle Test
Test equipment requirements

i) Low speed idle test:

- Without operating the accelerator pedal) ensures the engine is running at its manufacturer's recommended idle speed.
- 60 seconds after the probe has been inserted into the exhaust pipe, record the maximum value of the concentration of CO (in % vol) and the THC (in ppm) over a period of 30 to 60 seconds.

ii) The high-speed idle test:

- Operating the accelerator pedal, raise the engine speed until it can be stabilised within the range of 2500 to 3000 rpm
- 60 seconds after the probe has been inserted into the exhaust, record the maximum value of the concentration of CO (in % vol) and the THC (in ppm) over a period of 30 to 60 seconds.

Calibration date of the test instrumentation and condition of the pressure gauges and quick connectors, air couplings and interface cables

c. Compare the recorded results to the limits table set out in ADR 37/01.

ADR	DoM	CO idle	HC idle	CO high idle	HC high idle	Lambda
ADR.37/01	1997 - 2002	0.5%	300ppm	0.2%	100ppm	1.0 ±0.05
ADR.79/00 or later	2003 - current	0.2%	75ppm	0.1%	40ppm	1.0 ±0.05

Presentation Closed Time - 7.30pm

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Upcoming Meeting Dates

Third term dates.

2024	General Meeting	Executive
First Term	17 th February 2025 (Monday)	5 th March 2025 (Wednesday)
	17 th March 2025 (Monday)	7 th April 2025 (Monday)
Second Term	28 th April 2025 (Monday)	5 th May (Monday)
	19 th May 2025 (Monday)	2 nd June 2025 (Monday)
	16 th June 2025 (Monday)	
Third Term	17 th July 2025 [Offsite – Wyee] (Thursday)	
	18 th August 2025 (Monday)	4 th August 2025 (Monday)
	15 th September 2025 (Monday)	3 rd September 2025 (Wednesday)
Fourth Term	20 th October 2025 (Monday)	3 rd November 2025 (Monday)
	17 th November 2025 (Monday)	
	5 th December 2025 [Christmas Gathering]	