

Automotive



Electronics Training That's As Natural As Turning A Spanner

The world of electronics has touched all areas of today's automobiles. It is not enough for auto mechanics to be able to "turn a spanner"; today's mechanics must have a solid knowledge of automotive electronic systems. The E & L-Nida Automotive Electronics programme is specifically designed to train entry level automotive technicians in the inspection, troubleshooting, and repair of electrical and electronic systems found in today's high-tech automobiles. The E & L-Nida

Automotive Electronics programme utilises an un-intimidating step-by-step process to teach basic electronic component principles and circuit concepts. The competency-based courseware emphasises basic test equipment use and practical circuit trouble-shooting, which are key elements to the success of an automotive mechanic. The E & L-Nida Automotive Electronics programme: "making troubleshooting automobile circuits as natural as turning a spanner".

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The E & L-Nida Automotive Electronics programme teaches electricity and electronics from an automotive perspective. The intent of the programme is to produce competent automotive technicians who are comfortable working with and around electronics. Experiments and troubleshooting tasks are performed on circuit cards that emulate real automotive circuits. Traditional subjects, such as Ohm's Law, Series Circuits and Parallel Circuits are presented using examples from automotive systems and calculations that are based on actual values found in automotive circuitry. Components such as inductors, capacitors, transistors, diodes and logic gates are introduced in context with the specific automotive circuit where that component is found.

Supporting Courseware

Automotive Electronics Course Introduction to Auto Electronics

- Safety - Metric Notation
- Voltage, Current, Resistance
- Protective Devices

Basic Electrical

- Ohms Law - Series Circuits
- Parallel Circuits - Series/Parallel
- Circuits - Voltage Dividers
- Relays - AC Circuits

Electronics

- Capacitors - Diodes - Transistors
- Logic Gates - Inductors

Vehicle Technology

- Electrical Systems - Fuel Systems
- Charging and Ignition - Engine
- Cooling - Air Conditioning
- Suspension - Body Design

Automotive Systems

- Turn Signal - Starting - Ignition
- Fuel Injection - Engine Cooling

Additional Courses

Mathematics

Microprocessors (requires Model 130E)

Car Audio Systems

Trailer Wiring

Supporting Hardware



Model 130E
Test Console



Model TD2000
Tec Dec



Model 1431
Experiment Cards Set



Model 4050
Test Instrument Module

Contact

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